

# DUAL EDUCATION IN TECHNICAL COLLEGES

COVERAGE, REGIONAL DISPARITIES  
AND GROWTH PROSPECTS



An Information and Analytical Review  
Based on Prof-emis.edu.uz Data as of 30 May 2026

**“DUAL EDUCATION IN TECHNICAL COLLEGES: COVERAGE,  
REGIONAL DISPARITIES AND DEVELOPMENT PROSPECTS”**

*Information and analytical review based on Prof-emis.edu.uz data as of 30 May 2026*

**Tashkent – 2026**

# CONTENTS

|                                                                                              |           |
|----------------------------------------------------------------------------------------------|-----------|
| <b>I. INTRODUCTION .....</b>                                                                 | <b>4</b>  |
| 1.1. Relevance of the Analysis.....                                                          | 4         |
| 1.2. Purpose and Objectives of the Analysis .....                                            | 5         |
| 1.3. Object and Scope of the Analysis .....                                                  | 5         |
| 1.4. Data Source and Analysis Period.....                                                    | 6         |
| <b>II. REGULATORY, LEGAL AND METHODOLOGICAL FRAMEWORK .....</b>                              | <b>8</b>  |
| 2.1. Meaning and Key Features of Dual Education .....                                        | 8         |
| 2.2. National Regulatory and Legal Framework for Dual Education .....                        | 9         |
| 2.3. Indicator for Assessing Dual-Education Coverage .....                                   | 11        |
| 2.4. Criteria for Grouping Technical Colleges for Analytical Purposes .....                  | 12        |
| 2.5. Methodology for Calculating the Dual-Education Coverage Indicator .....                 | 13        |
| 2.6. Procedure for Calculating the Ranking Score for the Indicator .....                     | 14        |
| 2.7. Conditions for Interpreting the Data and Scope of the Analysis .....                    | 15        |
| <b>III. NATIONWIDE DUAL-EDUCATION COVERAGE AND TARGET INDICATORS.....</b>                    | <b>17</b> |
| 3.1. Overall State of Dual-Education Coverage .....                                          | 17        |
| 3.2. Current Coverage Relative to Target Indicators .....                                    | 17        |
| 3.3. Potential in Technical Colleges with No Learners Recorded in Dual Education .....       | 19        |
| 3.4. Analytical Scenarios for Increasing Dual-Education Coverage.....                        | 20        |
| <b>IV. ADMISSION TO DUAL EDUCATION AND COVERAGE BY STAGE OF STUDY .....</b>                  | <b>23</b> |
| 4.1. Admission to Dual Education in the 2025/2026 Academic Year .....                        | 23        |
| 4.2. Conditional Scenario for Increasing the Share of Dual Education in New Admissions ..... | 23        |
| 4.3. Dual-Education Coverage by Stage of Study .....                                         | 24        |
| <b>V. DUAL-EDUCATION COVERAGE BY TECHNICAL COLLEGE GROUP AND FORM OF OWNERSHIP .....</b>     | <b>27</b> |
| 5.1. Composition of Technical Colleges by Analytical Group.....                              | 27        |
| 5.2. Dual-Education Coverage by Technical College Group.....                                 | 27        |
| 5.3. Dual-Education Coverage in Non-State Technical Colleges.....                            | 29        |
| <b>VI. DISTRIBUTION OF TECHNICAL COLLEGES BY LEVEL OF DUAL-EDUCATION COVERAGE.....</b>       | <b>31</b> |
| 6.1. Overall Distribution by Coverage Range .....                                            | 31        |
| 6.2. Distribution of Learners in Technical Colleges with Low Coverage .....                  | 32        |
| 6.3. Technical Colleges with High Coverage and Distribution of Dual-Education Learners ..... | 34        |
| <b>VII. DUAL-EDUCATION COVERAGE BY REGION .....</b>                                          | <b>36</b> |
| 7.1. Overall Indicators by Region .....                                                      | 36        |
| 7.2. Regional Distribution of Dual-Education Learners .....                                  | 38        |

|                                                                                                            |    |
|------------------------------------------------------------------------------------------------------------|----|
| 7.3. Regional Distribution of Technical Colleges with No Learners Recorded in Dual Education .....         | 39 |
| 7.4. Additional Coverage Required to Reach 20 Per Cent by Region .....                                     | 41 |
| VIII. DUAL-EDUCATION COVERAGE BY OCCUPATION AND SPECIALTY .....                                            | 45 |
| 8.1. Distribution of the Dual-Education Learner Population by Principal Field .....                        | 45 |
| 8.2. Fields with No Dual Education Recorded .....                                                          | 47 |
| IX. INDICATOR RESULTS BY TECHNICAL COLLEGE .....                                                           | 50 |
| 9.1. Leading Technical Colleges in the Principal Ranking Group .....                                       | 50 |
| 9.2. Interpretation of Indicator Results .....                                                             | 52 |
| X. INTERNATIONAL EXPERIENCE AND QUALITY CRITERIA FOR DUAL EDUCATION ...                                    | 53 |
| 10.1. International Criteria for Quality Dual Education .....                                              | 53 |
| 10.2. Organisation and Quality Control of Dual Vocational Education in Germany                             | 54 |
| 10.3. Partnership-Based Governance of Dual Education in Switzerland .....                                  | 55 |
| 10.4. Opportunities for Applying International Approaches in Uzbekistan .....                              | 57 |
| XI. FINAL CONCLUSIONS AND PRACTICAL RECOMMENDATIONS .....                                                  | 59 |
| 11.1. Key Conclusions of the Analysis .....                                                                | 59 |
| REFERENCES .....                                                                                           | 61 |
| APPENDICES .....                                                                                           | 63 |
| Appendix 1. Indicator results for the 556 state technical colleges participating in the main ranking ..... | 63 |
| Appendix 2. Indicator results for the 28 special-status technical colleges ranked separately .....         | 77 |
| Appendix 3. Indicator results for the 51 technical colleges in the non-state sector .....                  | 78 |
| Appendix 4. Indicator results for the 44 state technical colleges with no graduates in 2025 .....          | 80 |

# I. INTRODUCTION

## 1.1. Relevance of the Analysis

Rapid changes in technologies, production processes and occupational requirements across economic sectors are placing before the education system the task of training specialists with practical skills that meet labour-market needs. In these circumstances, it is important to align the content of vocational education programmes with employers' requirements, enable learners to gain experience in real working environments, and facilitate the transition from education to employment.

Dual education is an **education model based on combining theoretical training at a technical college with practical training at an enterprise or organisation**. This approach enables learners to apply occupational knowledge in the workplace, work with modern equipment and technologies, and develop the practical skills required for a particular occupation.

At the same time, employers' participation in the design and implementation of education programmes helps bring the qualifications of trained personnel closer to labour-market requirements.

In international practice, workplace training is regarded as one of the key mechanisms for ensuring that vocational education is responsive to the labour market. According to the OECD approach, the effectiveness of a vocational education system is linked to the participation of educational organisations, employers and social partners in developing education programmes and organising workplace training.<sup>1</sup>

The International Labour Organization's Recommendation No. 208 provides that quality apprenticeship programmes should include a written agreement, a combination of workplace and educational-organisation training, adequate remuneration, social protection, occupational safety, a qualified mentor, and a recognised final qualification.<sup>2</sup>

---

<sup>1</sup> OECD. *Vocational Education and Training (VET)*. URL: <https://www.oecd.org/en/topics/vocational-education-and-training-vet.html> (accessed: 21.08.2026).

<sup>2</sup> International Labour Organization. *Quality Apprenticeships Recommendation, 2023 (No. 208)*. URL: <https://www.ilo.org/resource/other/r208-quality-apprenticeships-recommendation-2023> (accessed: 21.08.2026).

Uzbekistan is likewise implementing measures to link vocational education with the needs of economic sectors and employers, strengthen learners' practical training, and expand the coverage of dual education.

In particular, Resolution No. PR-316 of the President of the Republic of Uzbekistan dated 23 October 2025 **sets the target of enrolling 40 per cent of technical college learners in dual education by 2030.**

The analysis covered **679** technical colleges with a total enrolment of **442 227 learners**. Of these, **60 654 learners were recorded in dual education**, representing **13.7 per cent** within the scope of the analysis.

This figure demonstrates the need to expand dual-education coverage in order to achieve the 40 per cent target set for 2030.

Accordingly, the current state of dual education needs to be assessed not only on the basis of the overall coverage rate, but also by region, technical college, stage of study, occupation and specialty.

## **1.2. Purpose and Objectives of the Analysis**

The purpose of this review is to assess the current coverage of dual education in technical colleges, compare the results by region, technical college, stage of study, occupation and specialty, and develop practical proposals for expanding dual-education coverage.

To achieve this purpose, the following objectives were defined:

- to analyse dual-education coverage at the national level and by region, technical college, form of ownership, stage of study, occupation and specialty;
- to identify technical colleges with high and low dual-education coverage, as well as technical colleges recording zero results for dual education;
- to assess the current situation against the **conditionally adopted 20 per cent interim benchmark for 2026** and the **40 per cent target for 2030**;
- to study international experience in organising dual education and compare it with national practice;
- to develop proposals for expanding cooperation with employers and increasing dual-education coverage.

## **1.3. Object and Scope of the Analysis**

The object of the analysis is the organisation of dual education in technical colleges and the extent to which it covers learners.

The analysis examines the number and share of learners studying in dual education, the results of Indicator 16 of the National Ranking of Vocational Education Institutions (hereinafter – the National Ranking), and the distribution of these indicators by technical college group, form of ownership, region, stage of study, occupation and specialty.

The analysis covers **679 technical colleges** for which learner-enrolment data were available in the Prof-emis.edu.uz system. **Sixteen technical colleges** with incomplete data were excluded from the analysis. Accordingly, the aggregated indicators presented in the report were calculated within the scope of these **679 technical colleges**.

The following groups of technical colleges were included in the analysis:

- **556 state technical colleges** participating in the National Ranking;
- **44 state technical colleges** with no graduates;
- **28 special-status state technical colleges** ranked separately;
- **51 non-state technical colleges**.

Thus, the analysis **covers 628 state technical colleges and 51 non-state technical colleges**. Grouping the technical colleges makes it possible to compare their results while taking account of organisational characteristics and operating conditions.

#### **1.4. Data Source and Analysis Period**

The principal source of data for the analysis is the **Prof-emis.edu.uz information system, using data as of 30 May 2026**. The system provided data on technical colleges, their total learner enrolment, the number of learners covered by dual education, stages of study, occupations and specialties, and geographical location.<sup>3</sup>

The data were aggregated by technical college and checked for logical and arithmetic consistency. Dual-education coverage was calculated as the ratio of learners recorded in dual education to the total number of learners in the relevant group.

---

<sup>3</sup> Prof-emis.edu.uz information system. URL: <https://prof-emis.edu.uz> (accessed: [21.08.2026](#)).

The results were assessed on the basis of absolute numbers, percentage shares and comparative indicators generated under Indicator 16 of the National Ranking.

The following analytical methods were used in processing the data:

- statistical grouping and aggregation;
- calculation of absolute and relative indicators;
- comparative analysis by technical college and technical college group;
- assessment of distribution by region, stage of study, occupation and specialty;
- identification of the gap against target indicators;
- scenario-based calculations under specified assumptions.

The analysis **reflects the situation as of 30 May 2026**. Since the data in the Prof-emis.edu.uz information system may subsequently be updated, changes entered after this date are not reflected in the review.

## II. REGULATORY, LEGAL AND METHODOLOGICAL FRAMEWORK

### 2.1. Meaning and Key Features of Dual Education

Dual education is a form of vocational education based on acquiring theoretical knowledge at a technical college and practical skills in an employer's production environment. The educational process is organised on the basis of a programme agreed between the technical college and the employer, linking the learner's theoretical preparation directly to work tasks performed in practice.

Dual education should not be equated with a short-term internship or a production-site visit. **Its defining feature is that the educational process is delivered regularly and according to plan in two interrelated environments.** The curriculum and the content of workplace practical training should be coordinated, the responsibilities of the technical college and employer should be clearly defined, and the outcomes achieved should be assessed against common criteria.

The International Labour Organization's Recommendation No. 208 on quality apprenticeships identifies a written agreement, integration of workplace and educational-organisation training, qualified supervision, safe working conditions, social protection and formal recognition of acquired skills as core requirements for such education. This approach demonstrates that, alongside expanding dual-education coverage, it is also necessary to ensure the quality of its content and organisation.<sup>4</sup>

The effectiveness of dual education depends on a clear division of responsibilities among the technical college, employer and learner. The technical college provides theoretical preparation and develops general occupational skills; the employer provides a workplace, equipment, specialists and safe conditions for practical training; and the learner completes both the theoretical and practical components of the education programme in accordance with established requirements.

For this reason, the effectiveness of dual education cannot be assessed solely by the number or share of learners studying in this form. Coverage indicators should be interpreted together with the duration and content of

---

<sup>4</sup> International Labour Organization. *R208 - Quality Apprenticeships Recommendation, 2023 (No. 208)*. URL: [https://normlex.ilo.org/dyn/nrmlx\\_en/f?p=NORMLEXPUB:12100:0::NO::P12100\\_INSTRUMENT\\_ID:4347381:NO](https://normlex.ilo.org/dyn/nrmlx_en/f?p=NORMLEXPUB:12100:0::NO::P12100_INSTRUMENT_ID:4347381:NO) (accessed: 21.08.2026).

practical training, employer participation, mentor qualifications, occupational safety, assessment arrangements and graduate employment outcomes.

## 2.2. National Regulatory and Legal Framework for Dual Education

The regulatory and legal framework for organising and developing dual education in Uzbekistan has been established progressively. Current instruments define the procedure for organising dual education, the responsibilities of the educational organisation and employer, learner-admission mechanisms, financing of the educational process, and future target indicators.

Resolution No. 163 of the Cabinet of Ministers dated 29 March 2021, ‘On Measures to Organise Dual Education in the Vocational Education System’, approved the Regulation on the procedure for organising dual education in the vocational education system. Pursuant to this Resolution, dual education was introduced in the vocational education system beginning from the 2021/2022 academic year. The Regulation defines the concepts of a dual-education programme, workplace, mentor and contract, as well as the rights and obligations of the educational organisation, employer and learner.<sup>5</sup>

Under this procedure, learners participate in the educational process at the educational organisation for at least two days per week and, on the remaining working days, engage in employment together with practical training at the relevant organisation. The educational organisation and employer must approve a mutually agreed curriculum and educational-process schedule. **Thus, under national legislation, dual education is based on the planned alternation of theoretical and practical training, a formal contract, and clearly defined responsibilities of the parties.**

Decree No. PD-158 of the President of the Republic of Uzbekistan dated 16 October 2024, ‘On Measures to Further Improve the System for Training Qualified Personnel in Vocational Education and Introduce International Education Programmes’, set tasks to consolidate vocational education institutions into a unified network of technical colleges, expand their academic

---

<sup>5</sup> Resolution No. 163 of the Cabinet of Ministers of the Republic of Uzbekistan dated 29 March 2021 “On Measures to Organise Dual Education in the Vocational Education System”. URL: <https://lex.uz/docs/5346217> (accessed: 21.08.2026).

autonomy, align education programmes with labour-market requirements, and strengthen employer participation.<sup>6</sup>

This approach created an organisational basis for developing dual education not as a stand-alone initiative, but as one of the principal mechanisms linking vocational education with the labour market.

At the next stage, Decree No. PD-190 of the President of the Republic of Uzbekistan dated 23 October 2025 and Resolution No. PR-316 of the same date, ‘On Measures to Implement Reforms in the Vocational Education System’, were adopted. Resolution No. PR-316 established **increasing the share of dual education in the vocational education system to 40 per cent by 2030** as one of the principal target indicators.<sup>7</sup>

The Resolution also provides for additional mechanisms to incentivise the expansion of dual-education coverage.

In particular, beginning from the 2026/2027 academic year, learners studying in dual education are to receive a monthly stipend through a dedicated platform, and the period during which they study in dual education is to be included in their total employment record.

These measures are intended to strengthen the learner’s legal status in the education and employment process and increase the attractiveness of dual education.

Accordingly, the current regulatory and legal framework provides not only for the organisation of dual education, but also for a gradual increase in its coverage and quality. The principal target indicator is to increase the **share of dual education to 40 per cent by 2030**.

---

<sup>6</sup> Decree No. PD-158 of the President of the Republic of Uzbekistan dated 16 October 2024 “On Measures to Further Improve the System of Training Qualified Personnel in Vocational Education and Introduce International Educational Programmes”.

URL: <https://lex.uz/uz/docs/7166588#7166813> (accessed: 27.08.2026).

<sup>7</sup> Resolution No. PR-316 of the President of the Republic of Uzbekistan dated 23 October 2025 “On Measures to Implement Reforms in the Vocational Education System”.

URL: <https://lex.uz/docs/7793420#7797156> (accessed: 27.08.2026).

## 2.3. Indicator for Assessing Dual-Education Coverage

By Order No. 1 of the Director of the National Quality Assurance Agency for Education under the Administration of the President of the Republic of Uzbekistan dated 18 March 2026, the Regulation on the procedure for maintaining the National Ranking of Secondary Specialised and Vocational Education Institutions and incentivising vocational education institutions was approved and registered with the Ministry of Justice on 15 April 2026 under Registration No. 3816.

The Regulation establishes 19 indicators for forming the National Ranking of Vocational Education Institutions. Indicator 16 is entitled '**Share of Dual Education in a Vocational Education Institution**'.<sup>8</sup>

This indicator represents the ratio of learners studying in dual education at a technical college to the technical college's total learner enrolment. Its principal purpose is to compare technical colleges of different sizes in terms of their level of dual-education coverage.

Accordingly, technical colleges with large and small learner populations are assessed not only by the absolute number of learners in dual education, but by their share of total enrolment.

A maximum of **8 points** is allocated to the indicator in the National Ranking. The technical college with the highest result receives the maximum score, while the scores of other technical colleges are calculated through proportional normalisation against the leading result. The formulas for calculating the indicator value and ranking score are presented separately in the following sections.

When interpreting the results, it is necessary to distinguish among the indicator value, the National Ranking score, and the absolute number of learners in dual education.

For example, a technical college with a small total enrolment may have a high indicator value and National Ranking score because it has a high share of learners in dual education.

---

<sup>8</sup> Regulation on the Procedure for Maintaining the National Ranking of Secondary Specialised and Vocational Education Organisations and Incentivising Vocational Education Organisations. Registered with the Ministry of Justice of the Republic of Uzbekistan on 15 April 2026 under Registration No. 3816. URL: <https://lex.uz/docs/-8139719#-8149928> (accessed: 27.08.2026).

At the same time, another technical college with a large learner population may involve a greater absolute number of learners in dual education but record a lower ranking result because their share of total enrolment is smaller.

This indicator does **not** reflect the actual implementation of contracts concluded with employers, compliance of workplaces and mentors with requirements, occupational safety, learners' completion of the programme, or graduate employment outcomes.

Therefore, the indicator results should be interpreted not as a final assessment of the quality of dual education, but as a quantitative measure of its coverage level.

## **2.4. Criteria for Grouping Technical Colleges for Analytical Purposes**

The comparative assessment of technical college performance takes into account their form of ownership, the availability of graduates, and the existence of specific academic, organisational and financial opportunities.

Directly comparing technical colleges operating under different conditions within a single group may adversely affect the objective interpretation of results. For this reason, the technical colleges included in the analysis were divided into **four groups**.

**Group 1 comprises 556 state technical colleges participating in the principal National Ranking.** These technical colleges had graduates during the reporting period and are compared with one another on the basis of the established indicators. Under the National Ranking results, the **top 50 technical colleges** receive incentives.

**Group 2 comprises 28 state technical colleges implementing international education programmes and advanced vocational-skills technical colleges.** Because these technical colleges have been granted additional academic autonomy, organisational opportunities and priority financing mechanisms, their results are compiled separately from the principal ranking. They are not included in the top 50 of the principal ranking and do not receive incentives within that ranking.<sup>9</sup>

---

<sup>9</sup> Regulation on the Procedure for Maintaining the National Ranking of Secondary Specialised and Vocational Education Organisations and Incentivising Vocational Education Organisations; Decree No. PD-158 of the President of the Republic of Uzbekistan dated 16 October 2024 and Resolution No. PR-316 dated

**Group 3 comprises 44 state technical colleges that had no graduates during the reporting period.** These technical colleges do not participate in the final National Ranking. However, their learners were taken into account when calculating overall coverage indicators.

**Group 4 comprises 51 non-state technical colleges.** Although they do not participate in the National Ranking, their data were analysed to assess the distribution of dual-education coverage by form of ownership and the prospects for achieving the nationwide 2030 target.

Thus, of the **679** technical colleges covered by the analysis, **556 participate in the National Ranking, 28 are special-status state technical colleges ranked separately, 44 are state technical colleges with no graduates, and 51 are non-state technical colleges.**

This grouping does not pre-classify technical colleges by quality level; it is used solely to support comparative interpretation of results while taking account of their legal status and operating conditions.

## **2.5. Methodology for Calculating the Dual-Education Coverage Indicator**

The dual-education coverage indicator represents the share of learners studying in dual education in the total learner enrolment of each technical college. The indicator is calculated using the following formula.

Formula for calculating the indicator:

$$K = \frac{L_1}{L};$$

where

**K** – the technical college’s indicator value;

**L<sub>1</sub>** – the number of learners studying in dual education;

**L** – the total number of learners.

The numerator of the formula represents the number of learners covered by dual education in the technical college, while the denominator represents the technical college’s total learner enrolment.

---

23 October 2025. URL: <https://lex.uz/docs/-8139719#-8148630>; <https://lex.uz/uz/docs/7166588#7167064>; <https://lex.uz/docs/7793420#7797294> (accessed: 27.08.2026).

## 2.6. Procedure for Calculating the Ranking Score for the Indicator

The indicator value calculated for dual-education coverage is not taken directly as a score in the National Ranking. A technical college's ranking score is calculated through proportional normalisation against the highest result recorded in the relevant ranking group.

$$I_b = B_m \frac{K_t}{K_m}$$

where:

$I_b$  – the ranking score awarded to the technical college being assessed under the indicator;

$B_m$  – the maximum score established for the indicator;

$K_t$  – the dual-education coverage indicator of the technical college being assessed;

$K_m$  – the indicator value of the technical college recording the highest result in the relevant ranking group.

A maximum of **8 points** is established for the dual-education coverage indicator. Accordingly, the ranking score for this indicator is calculated as follows:

$$I_b = 8 \frac{K_t}{K_m}$$

The technical college with the highest indicator value in the relevant ranking group receives **8 points**. The scores of the remaining technical colleges are determined proportionally according to the share that their result represents of the leading technical college's indicator value. A technical college with an indicator value of zero receives zero points under this indicator.

The highest indicator value is determined separately within the respective group for state technical colleges participating in the main ranking and for special technical colleges assessed separately. Therefore, **directly comparing scores across different ranking groups is not methodologically appropriate**.

Dual-education coverage is calculated for analytical purposes for non-state technical colleges and technical colleges with no graduates during the reporting period. However, these technical colleges are not assessed in the National Ranking on the basis of these results.

The score obtained for dual-education coverage does not independently determine a technical college's position in the National Ranking. The National Ranking is formed on the basis of the aggregate score calculated across all indicators provided for in the ranking procedure.

**The score under this indicator is one of the components forming the technical college's overall ranking result.**

Unrounded indicator values should be used in calculations, while results in tables and analytical text should be presented to the specified level of precision.

This prevents unjustified changes in technical colleges' scores or ranking positions as a result of intermediate rounding.

## **2.7. Conditions for Interpreting the Data and Scope of the Analysis**

When interpreting the results of the analysis, the source from which the data are generated, the coverage period, and the substantive limitations of the indicator should be taken into account.

This review is based on data available in the Prof-emis.edu.uz information system **as of 30 May 2026**.

The completeness and accuracy of data in the information system depend on the timely and correct submission of information by the responsible organisations entering the data.

Within the scope of this analysis, each learner's dual-education contract, assigned workplace, mentor and actual educational process were not verified on the basis of separate documents. Accordingly, the results represent the number of learners recorded as studying in dual education in the Prof-emis.edu.uz information system.

For technical colleges with no learners recorded in dual education, it cannot be determined conclusively without additional examination whether dual education has not been organised at all in practice or whether the relevant data have not been entered into the information system.

In particular, separate verification is required for technical colleges that have an enrolled learner population but record a zero result for dual education.

Differences identified by region, technical college group, stage of study, occupation and specialty do not mean that these factors are the direct causes of dual-education outcomes.

The available data make it possible to identify differences between indicators, but a full assessment of their causes requires additional information on the number of employers, labour-market demand, practical-training bases, contracts, mentors, and material and technical conditions.

Percentage indicators are calculated by dividing the total number of dual-education learners in the group under analysis by the total number of learners in that group.

Rounding results calculated separately by group to whole numbers may produce a technical difference of one learner in certain totals. Such cases should be interpreted not as inconsistencies in the data, but as the result of independent rounding.

**These conditions do not diminish the significance of the analysis results;** rather, they clearly define the scope within which the results may be used.

Within the scope of data recorded in the Prof-emis.edu.uz system, the results provide an analytical basis for describing the current state of dual-education coverage, identifying key differences, and determining the technical colleges, occupations and specialties that require additional study.

### III. NATIONWIDE DUAL-EDUCATION COVERAGE AND TARGET INDICATORS

#### 3.1. Overall State of Dual-Education Coverage

As of 30 May 2026, **442 227 learners** were studying in the **679 technical colleges** included in the analysis.

Of these, **60 654 learners** were continuing their studies in dual education. Nationwide dual-education coverage stood at **13.7 per cent**.

This means that approximately **14** out of every **100 technical college learners** were involved in dual education.

The remaining **381 573 learners**, or **86.3 per cent of total enrolment**, were studying in other forms of education.



**Figure 1. Overall state of dual-education coverage in technical colleges nationwide, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

The results show that dual education has been introduced to a certain extent in technical college operations, but **currently covers a relatively small share of the total learner population**.

Therefore, in addition to assessing the overall potential for increasing dual-education coverage, it is necessary to analyse separately its distribution by technical college, region and occupational field.

The current coverage level is assessed against the **20 per cent** analytical interim benchmark and the **40 per cent target to be achieved by 2030**.

#### 3.2. Current Coverage Relative to Target Indicators

In assessing the current level of nationwide dual-education coverage, it is important to compare it with the analytical interim benchmark and the official target established for 2030.

Assuming that total learner enrolment remains unchanged at **442 227**, the **20 per cent** analytical interim benchmark would correspond to **88 446 dual-education learners**. This is **27 792** more than the current figure. This amount is not a mandatory plan, but the result of a conditional calculation.

If the **official target of increasing dual-education coverage to 40 per cent** by 2030 remains in force, the number of dual-education learners would need to reach **176 891**. The gap between the current level and the target is **116 237 learners**.

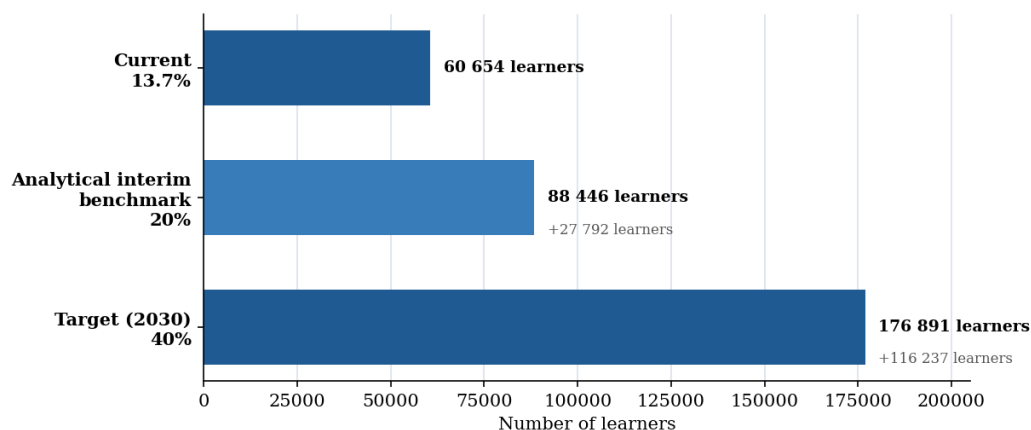


**Figure 2. Current number of dual-education learners and the number required for 20 and 40 per cent coverage**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system and the target established by Resolution No. PR-316 of the President of the Republic of Uzbekistan dated 23 October 2025.

Comparative calculations show a gap of **6.3 percentage points** between current coverage and the **20 per cent** analytical benchmark, and a gap of **26.3 percentage points** relative to the official 2030 target. Achieving **40 per cent** coverage would require the number of dual-education learners to increase by approximately **2.9 times** compared with the current level.

These calculations were made on the assumption that total learner enrolment remains unchanged at **442 227**.

Accordingly, they should be interpreted not as a forecast, but as **an analytical scenario indicating the quantitative scale required to achieve the target indicators**.

### 3.3. Potential in Technical Colleges with No Learners Recorded in Dual Education

Of the **679 technical colleges** included in the analysis, **485 have at least one dual-education learner**. No learners studying in dual education were recorded in the remaining **194 technical colleges**. Of these, **191** have an enrolled learner population, while **three technical colleges** (Tashkent Region Advanced Vocational Skills Technical College, Tashkent City Advanced Vocational Skills Technical College, and Ochiloff Medical Technical College) have no learners.

A total of **124 889 learners** are studying in the **191** technical colleges with no dual-education learners.

This figure indicates that the gradual introduction of dual education in these technical colleges represents an important internal opportunity for increasing nationwide coverage.

If **10 per cent** of the learners studying in these 191 technical colleges were engaged in dual education, an additional **12 489 learners** could be covered.

This would cover **44.9 per cent** of the additional requirement of **27 792 learners** needed to achieve the 20 per cent analytical interim benchmark nationwide.

| Indicator                                                                      | Value                  |
|--------------------------------------------------------------------------------|------------------------|
| Technical Colleges included in the analysis                                    | 679 technical colleges |
| Technical Colleges with learners in dual education                             | 485 technical colleges |
| Technical Colleges with no learners in dual education                          | 194 technical colleges |
| of which, technical colleges with a learner population                         | 191 technical colleges |
| Technical Colleges with no learner population                                  | 3 technical colleges   |
| Total learners in these technical colleges                                     | 124 889 learners       |
| Potential to involve 10 per cent of learners in dual education                 | 12 489 learners        |
| Share of the gap to the 20 per cent analytical benchmark that would be covered | 44.9 %                 |

**Table 1. Potential for expanding coverage in technical colleges with no learners recorded in dual education**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

This calculation does not prescribe the same coverage level for all technical colleges currently without dual education; rather, it assesses the quantitative potential that could be achieved on the basis of their existing learner populations.

Actual potential depends on the technical college's occupational profile, employers in the region and their capacity to accept learners, and the conditions for integrating education with production.

Therefore, measures to expand coverage should begin **with a separate assessment of the occupational fields and employer-cooperation opportunities** of technical colleges that have enrolled learners but no learners recorded in dual education.

### 3.4. Analytical Scenarios for Increasing Dual-Education Coverage

To assess progress towards achieving **40 per cent** dual-education coverage by **2030**, analytical calculations were carried out for interim coverage levels of **20, 25, 30** and **35** per cent. These levels are annual targets established in regulatory documents and serve as **interim benchmarks** for assessing, step by step, the scale required to achieve the final 40 per cent target.

Assuming total learner enrolment remains at **442 227**, the number of dual-education learners required for each coverage level is presented in Table 2.

| Year | Share | Scenario number of learners in dual education | Difference from the current figure |
|------|-------|-----------------------------------------------|------------------------------------|
| 2026 | 20 %  | 88 446 learners                               | 27 792 learners                    |
| 2027 | 25 %  | 110 557 learners                              | 49 903 learners                    |
| 2028 | 30 %  | 132 668 learners                              | 72 014 learners                    |
| 2029 | 35 %  | 154 780 learners                              | 94 126 learners                    |
| 2030 | 40 %  | 176 891 learners                              | 116 237 learners                   |

**Table 2. Assessment of the potential to reach target indicators in 2026–2030**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

The calculations show that each **5 percentage-point increase in dual-education coverage requires approximately 22.1 thousand additional learners** to be engaged in this form of education. Accordingly, if **20 per cent** coverage is adopted as a short-term analytical benchmark, an additional **27 792 learners** would need to be covered.

Increasing coverage to **25 per cent** would require **49 903 additional learners**, reaching **30 per cent** would require **72 014**, and reaching **35 per**

**cent** would require **94 126 additional learners** to be engaged in dual education.

**To achieve the official 40 per cent target, an additional 116 237 learners** would need to be covered by dual education **compared with the current figure.**

These scenarios demonstrate the quantitative scale of the process of expanding dual-education coverage.

However, the total number of learners, the network of technical colleges and admission indicators will change over time.

In particular, increasing the coverage of Grade 9 graduates by vocational education from **29 per cent to 50 per cent** will increase the number of learners entering vocational education. Accordingly, the number of learners required to achieve a **40 per cent** share of dual education may also be higher than the amount calculated on the basis of the current learner population.

In this regard, the coverage of Grade 9 graduates by vocational education and the share of dual education in total learner enrolment are different indicators. The first reflects graduates' participation in vocational education, while the second reflects the distribution of the relevant learner population by form of education. It would therefore be incorrect to determine demand for dual education by directly applying the increase from **29 per cent to 50 per cent** to total enrolment.

Under a scenario in which a **40 per cent dual-education share** is applied to the target of increasing technical college enrolment **to 1 million learners, 400 thousand learners** would need to study in dual education. This is **339 346 more** than the **60 654 learners** recorded in this report and would require current coverage to increase by approximately **6.6 times**.

As total enrolment grows, the requirement for dual education increases proportionally. Specifically, at total enrolment of **600 thousand learners, 240 thousand** would need to be covered to achieve a **40 per cent** share; at **800 thousand learners, 320 thousand**; and at **1 million learners, 400 thousand**. Compared with the current level, this would mean additional coverage of **179 346, 259 346 and 339 346 learners**, respectively.

These figures do not represent the number of learners who must be admitted in a single year. When determining annual admission parameters, account should be taken of learners continuing in dual education, graduates, learners leaving education, and those transferring to another form of

education. On this basis, total enrolment, the number of dual-education learners and the volume of new admissions should be planned in an interconnected manner for each year.

Such expansion of coverage will also increase demand for practical-training places in enterprises, qualified mentors and the necessary equipment. Therefore, additional admission parameters should be based on employers' verified capacities by region and occupation.

For each enterprise, the number of learners who can be accepted at the same time, the practical-training schedule, availability of mentors and training conditions should be determined. The possibility of using one practical-training place on a rotational basis should be taken into account, and the required number of places in enterprises should not automatically be equated with the number of learners.

Accordingly, plans to expand dual-education coverage should determine jointly the number of learners, annual admissions and enterprises' practical-training capacity. This will make it possible both to achieve the target share and to ensure high-quality vocational preparation for the learners involved.

## IV. ADMISSION TO DUAL EDUCATION AND COVERAGE BY STAGE OF STUDY

### 4.1. Admission to Dual Education in the 2025/2026 Academic Year

In the 2025/2026 academic year, a total of **249 130 learners** were admitted to technical colleges nationwide. Of these, the share actually admitted to dual education was **16.5 per cent**.<sup>10</sup>

The share of dual education in admissions was **2.8 percentage points** higher than the current overall nationwide coverage level. In other words, the share of dual education in new admissions was higher than the **13.7 per cent** recorded in the total learner population.

This indicates that **new-admission parameters may serve as an important practical instrument** for expanding dual-education coverage.

At the same time, the **16.5 per cent** share in admissions is **23.5 percentage points below** the **40 per cent** target established for 2030.

Therefore, if the current share in admissions remains unchanged, the rate of growth will not be sufficient to increase dual-education coverage to the established level.

Increasing the share of dual education in new admissions should not be limited to a quantitative increase in admission places. Admission parameters need to be aligned with active contracts concluded with employers, available employment and practical-training places, the number of qualified mentors, technical colleges' occupational profiles, and regional labour-market needs.

### 4.2. Conditional Scenario for Increasing the Share of Dual Education in New Admissions

Achieving 40 per cent dual-education coverage by 2030 cannot be ensured solely by redistributing the current learner population. It is important to increase consistently the share of places allocated to dual education in each new admission cycle.

Assuming that total annual admissions remain at around 249 thousand and that no sharp change occurs in the learner population, an analytical scenario for increasing the share of dual education in new admissions for 2026–2030 was developed.

---

<sup>10</sup> National Quality Assurance Agency for Education. "Analysis of Admission Parameters in Vocational Education and Their Effectiveness". URL: <https://nqaae.uz/uz/analysis>

| Year | Analytical interim benchmark in total enrolment | Share of dual education in new admissions | Learners to be admitted to dual education under the scenario |
|------|-------------------------------------------------|-------------------------------------------|--------------------------------------------------------------|
| 2026 | 20 %                                            | 25.0 %                                    | 62.3 thousand learners                                       |
| 2027 | 25 %                                            | 29.0 %                                    | 72.2 thousand learners                                       |
| 2028 | 30 %                                            | 34.0 %                                    | 84.7 thousand learners                                       |
| 2029 | 35 %                                            | 39.0 %                                    | 97.2 thousand learners                                       |
| 2030 | 40 %                                            | 44.0 %                                    | 109.6 thousand learners                                      |

**Table 3. Conditional scenario for increasing the share of dual education in new admissions**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system and the target indicator established for 2030.

The table illustrates, on the assumption that total annual admissions remain at around **249 thousand**, an increase in the share of dual education in new admissions from **25 per cent to 44 per cent**. Under this scenario, the number of learners admitted to dual education would rise from **62.3 thousand to 109.6 thousand**.

The shares presented in the table are not regulatory targets, forecasts or approved admission parameters. Reaching a **44 per cent** share in new admissions does not in itself guarantee 40 per cent coverage across the total learner population. Determining this would require a flow model covering the duration of study of each admission cohort, progression between stages, graduation, withdrawal and transfer to another form of education. The scenario should therefore be recalculated at the end of each academic year using current data.

The scenario envisages increasing the share of dual education in new admissions by **19 percentage points** in 2026–2030, and increasing the number of learners admitted to dual education by approximately **48 thousand**. This requires annual, step-by-step revision of admission parameters and alignment of dual-education places with employers' actual capacities.

These calculations constitute a conditional scenario. The number of graduates, withdrawals, changes in form of education, admission volumes and changes in the technical college network may affect the final result. The admission scenario should therefore be recalculated at the end of each academic year on the basis of current data.

### **4.3. Dual-Education Coverage by Stage of Study**

Data by stage of study show that dual-education coverage is not evenly distributed across stages. At the first stage, **45 276 of 257 884 learners** were studying in dual education, giving a coverage rate of **17.6 per cent**.

At the second stage, **14 858 of 154 715 learners** were engaged in dual education. The share of dual education at this stage was **9.6 per cent**.

At the third stage, **520 of 29 628 learners** were studying in dual education, giving a coverage rate of **1.8 per cent**.

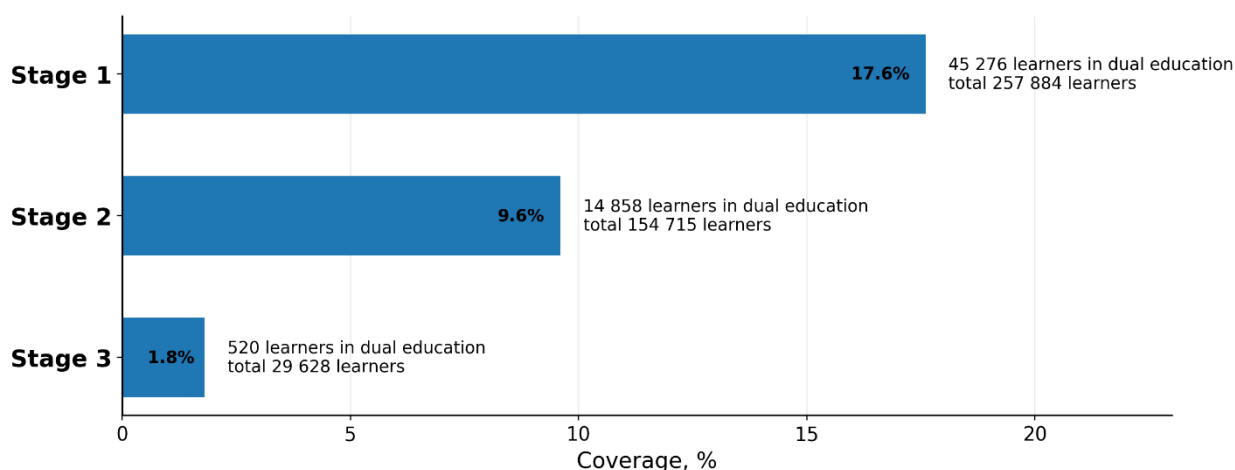


**Figure 3. Dual-education coverage in technical colleges by stage of study, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

The analysis shows that the share of dual education at the first stage is **8 percentage points** higher than at the second stage and **15.8 percentage points** higher than at the third stage. The first-stage coverage rate is approximately **10 times** higher than that at the third stage.

Of the **60 654 learners** in dual education, **45 276**, or **74.6 per cent**, are **studying at the first stage**. The second stage accounts for **24.5 per cent**, while the third stage accounts for **0.9 per cent**. This indicates that the majority of the dual-education learner population has been formed through more recent admissions.

The difference between stages may be related to the gradual introduction of dual education beginning in the 2021/2022 academic year and the expansion of its coverage in subsequent admissions. However, these data do not directly track the progression of a specific group of learners from one stage to the next.

Therefore, retention in the programme at subsequent stages of learners admitted to dual education at the first stage, the continuous validity of contracts

concluded with employers, and completion of dual education should be **assessed through separate cohort tracking**.<sup>11</sup>

---

<sup>11</sup> Cohort tracking – a method for tracking the progression of a group of learners admitted to dual education during the same period through subsequent stages and their completion of dual education.

## **V. DUAL-EDUCATION COVERAGE BY TECHNICAL COLLEGE GROUP AND FORM OF OWNERSHIP**

### **5.1. Composition of Technical Colleges by Analytical Group**

The **679 technical colleges** included in the analysis were divided into several groups based on form of ownership, organisational status and characteristics of participation in the assessment. This grouping enables comparative assessment of dual-education coverage among technical colleges operating under different organisational conditions.

Of the technical colleges included in the analysis, **628 are state** educational organisations and **51 are non-state** educational organisations. The state sector comprises **600 conventional state technical colleges** and **28 special-status technical colleges**.

Of the conventional state technical colleges, **556** are included in the main ranking group. The remaining **44 state technical colleges** were examined as a separate analytical group because **they had no graduates**. The results of **28 special-status technical colleges** and **51 non-state technical colleges** were likewise assessed as separate groups.

The analytical groups are composed as follows:

state technical colleges in the main ranking group, **556**;

state technical colleges with no graduates, **44**;

special-status technical colleges, **28**;

non-state technical colleges, **51**.

Together, these four groups **fully cover the 679 technical colleges** within the scope of the analysis. This division makes it possible to interpret dual-education coverage not only by form of ownership, but also taking into account the operating characteristics and assessment status of the technical colleges.

Because the numbers of technical colleges in the groups differ substantially, comparing them solely on the basis of the total number of dual-education learners is insufficient. Accordingly, the following section analyses, for each group, total learner enrolment, the number of dual-education learners, and their share of total enrolment together.

### **5.2. Dual-Education Coverage by Technical College Group**

Analysis by technical college group shows that dual-education coverage varies substantially depending on form of ownership and organisational status.

| Technical College group                 | Number of technical colleges | Total learners   | Learners in dual education | Coverage rate |
|-----------------------------------------|------------------------------|------------------|----------------------------|---------------|
| Total                                   | 679 technical colleges       | 442 227 learners | 60 654 learners            | 13.7 %        |
| <i>including</i>                        |                              |                  |                            |               |
| Conventional state technical colleges   | 600 technical colleges       | 390 193 learners | 56 984 learners            | 14.6 %        |
| Special-status state technical colleges | 28 technical colleges        | 18 497 learners  | 3 289 learners             | 17.8 %        |
| Non-state technical colleges            | 51 technical colleges        | 33 537 learners  | 381 learners               | 1.1 %         |

**Table 4. Dual-education coverage by technical college group, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

Note: the aggregate indicator for state technical colleges covers the results of conventional state technical colleges and special-status technical colleges.

In the **28 special-status technical colleges, 3 289 of 18 497 learners, or 17.8 per cent**, are studying in dual education. This is **3.2 percentage points higher** than the **14.6 per cent** recorded in conventional state technical colleges.

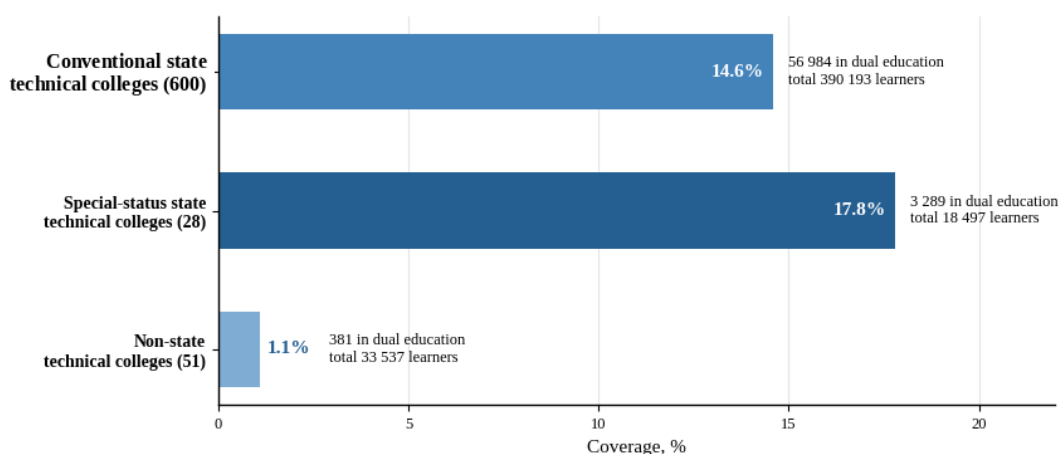


**Figure 4. Dual-education coverage by technical college group, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

Across **628 state technical colleges, 60 273 of 408 690 learners are covered by dual education**. Overall coverage in the state sector is **14.7 per cent**. Of the **60 654 learners** studying in dual education nationwide, **99.4 per cent** are enrolled in state technical colleges.

Although **33 537 learners** study in the **51** non-state technical colleges, only **381** are engaged in dual education. As a result, the coverage rate in non-state technical colleges is **1.1 per cent**. The difference between the coverage rates of state and non-state technical colleges is **13.6 percentage points**.

The relatively high result of special-status technical colleges and the reasons for low coverage in the non-state sector cannot be fully explained on the basis of the available quantitative data alone. Additional study is required of contracts concluded with employers, practical-training places, the number of mentors, occupational fields and mechanisms for organising dual education.

### 5.3. Dual-Education Coverage in Non-State Technical Colleges

Low dual-education coverage in the non-state sector does not mean that the same result is observed across all technical colleges. The analysis shows that **only three of the 51 non-state technical colleges** have dual-education learners. **No learners studying in dual education were recorded in the remaining 48 non-state technical colleges.**

| Technical College name                                 | Total learners         | Learners in dual education | Coverage rate |
|--------------------------------------------------------|------------------------|----------------------------|---------------|
| Alpha Professional Education Medical Technical College | 528 learners           | 182 learners               | 34.5%         |
| Margilan Multidisciplinary Technical College           | 31 learners            | 8 learners                 | 25.8%         |
| Aralboyi Medicine and Transport Technical College      | 1 583 learners         | 191 learners               | 12.1%         |
| Other non-state technical colleges                     | 31 395 learners        | 0 learners                 | 0%            |
| <b>Total</b>                                           | <b>33 537 learners</b> | <b>381 learners</b>        | <b>1.1 %</b>  |

**Table 5. Non-state technical colleges with dual-education learners, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

In the non-state sector, **Aralboyi Medicine and Transport Technical College** has the highest absolute number of dual-education learners, with **191 learners** studying in this form. The corresponding figure is **182 learners** at **Alpha Professional Education Medical Technical College** and **8 learners** at **Margilan Multidisciplinary Technical College**.

The highest coverage rate was recorded at **Alpha Professional Education Medical Technical College**, at **34.5 per cent**. Dual education accounted for **25.8 per cent** at **Margilan Multidisciplinary Technical College** and **12.1 per cent** at **Aralboyi Medicine and Transport Technical College**.

Of the **51 technical colleges** in the non-state sector, dual-education learners were recorded in **only three**. Of the total **381 dual-education learners, 373, or 97.9 per cent, are enrolled in two technical colleges**. This indicates that **dual education has not yet been introduced widely across the non-state sector** and that **the current result is driven primarily by a small number of technical colleges**.

## VI. DISTRIBUTION OF TECHNICAL COLLEGES BY LEVEL OF DUAL-EDUCATION COVERAGE

### 6.1. Overall Distribution by Coverage Range

Grouping technical colleges by dual-education coverage makes it possible to assess the extent to which the scale of implementation of this form of education differs across institutions. For this purpose, the **679 technical colleges within the scope of the analysis were divided into seven ranges according to their share of dual education.**

Of the **679 technical colleges covered by the analysis, 485 have learners studying in dual education.** This represents **71.4 per cent** of all technical colleges. No learners studying in this form of education were recorded in the remaining **194 technical colleges (28.6 per cent).**

| Coverage range | Number of technical colleges  | Total learners | Learners in dual education |
|----------------|-------------------------------|----------------|----------------------------|
| 0%             | 194 technical colleges        | 124 889        | 0                          |
| 0–5%           | 48 technical colleges         | 40 819         | 1 318                      |
| 5–10%          | 93 technical colleges         | 68 198         | 5 210                      |
| 10–20%         | 138 technical colleges        | 91 798         | 13 450                     |
| 20–30%         | 96 technical colleges         | 56 073         | 13 947                     |
| 30–40%         | 57 technical colleges         | 31 398         | 11 016                     |
| ≥ 40%          | 53 technical colleges         | 29 052         | 15 713                     |
| <b>TOTAL</b>   | <b>679 technical colleges</b> | <b>442 227</b> | <b>60 654</b>              |

**Table 6. Distribution of technical colleges by share of dual education as of 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

According to the data, the largest group consists of **194 technical colleges** with no dual-education coverage. The next largest group comprises **138 technical colleges** with coverage of **10–20 per cent**. The **20–30 per cent** group contains **96 technical colleges**, while **93 technical colleges** fall within the **5–10 per cent** range.

There are **57 technical colleges** with coverage between **30 and 40 per cent**. In **53 technical colleges**, dual-education coverage has reached **40 per**

**cent or above. At the same time, 48 technical colleges have coverage above 0 per cent but not exceeding 5 per cent.**

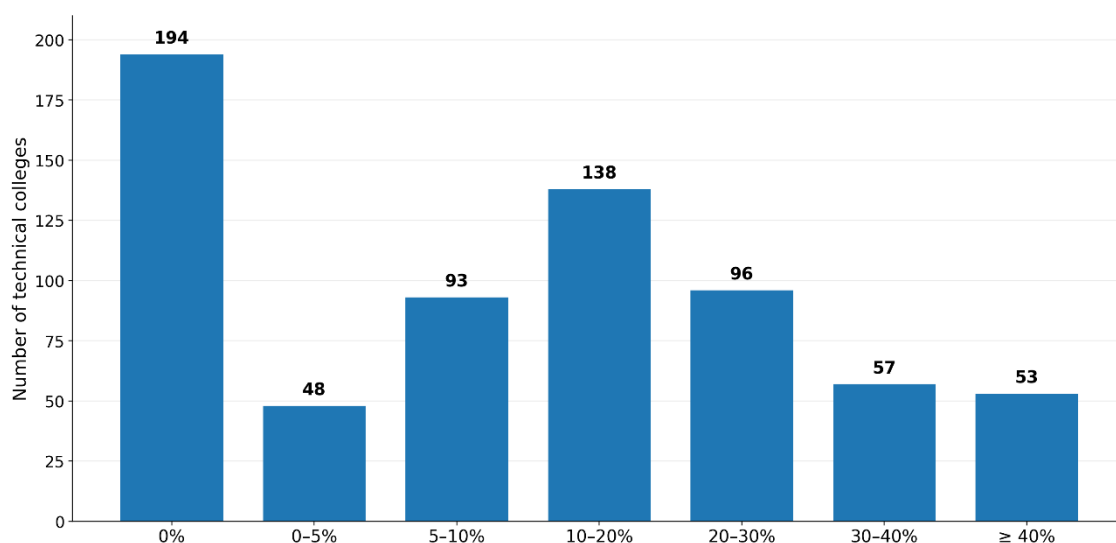


**Figure 5. Distribution of technical colleges by level of dual-education coverage, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

This distribution shows that dual education has been introduced in most technical colleges, but that the **scale of coverage varies substantially across institutions.**

On the one hand, a group of technical colleges has emerged that has reached or exceeded the **40 per cent** target level.

On the other hand, the number of technical colleges with no dual education or low coverage remains substantial. Accordingly, the next subsection separately analyses the situation in technical colleges with coverage below **10 per cent.**

## **6.2. Distribution of Learners in Technical Colleges with Low Coverage**

When assessing technical colleges with low dual-education coverage, it is necessary to consider not only the number of such institutions but also the learner population studying in them. Limited dual-education coverage in technical colleges with large learner populations has a significant effect on the nationwide aggregate indicator.

According to the analysis, **242 technical colleges** fall into the **0 per cent** and **0-5 per cent** coverage groups. This represents **35.6 per cent** of the technical colleges covered by the analysis. Although **165 708 learners**, or **37.5 per cent** of all learners, study in these technical colleges, the number of

dual-education learners is only **1 318**. This is just **2.2 per cent** of all dual-education learners nationwide.

When technical colleges with **5–10 per cent** coverage are also included, the number of technical colleges with coverage up to 10 per cent reaches **335**. They enrol **233 906 learners**, representing **52.9 per cent** of all learners. At the same time, these technical colleges account for **6 528 dual-education learners**, or **10.8 per cent** of the national total.

| Aggregated coverage groups | Number of technical colleges | Total learners   | Share of total learners | Learners in dual education | Coverage rate |
|----------------------------|------------------------------|------------------|-------------------------|----------------------------|---------------|
| 0% and 0–5%                | 242 technical colleges       | 165 708 learners | 37.5%                   | 1 318 learners             | 2.2 %         |
| 0%, 0–5% / and 5–10%       | 335 technical colleges       | 233 906 learners | 52.9%                   | 6 528 learners             | 10.8 %        |

**Table 7. Aggregated indicators for technical colleges with low dual-education coverage, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

These results show that more than half of the learners included in the analysis study in technical **colleges where dual-education coverage is no more than 10 per cent**.

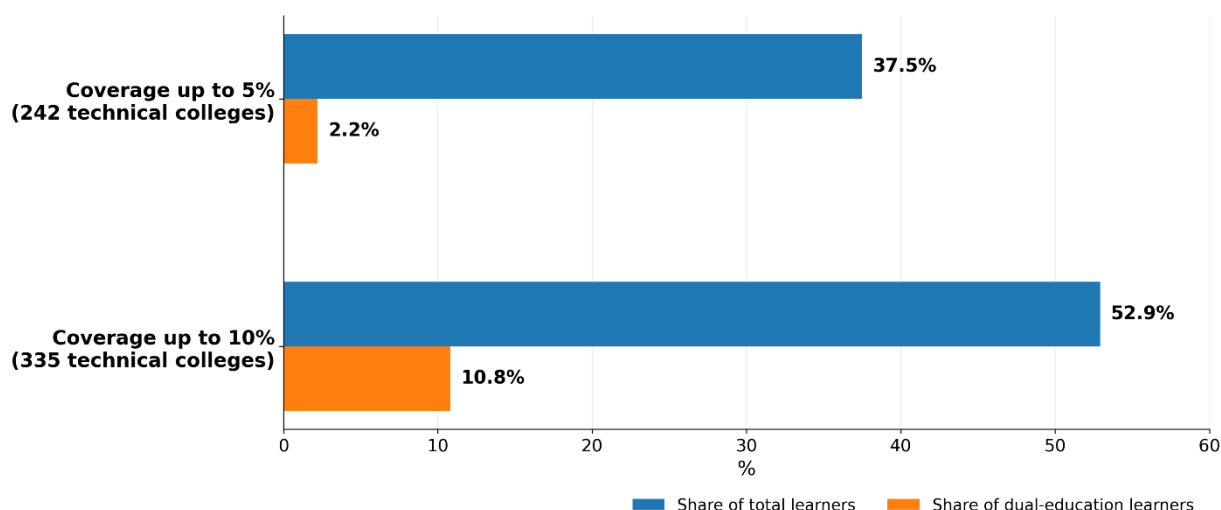


**Figure 6. Share of total learners and dual-education learners in technical colleges with low coverage, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

This imbalance indicates that the main internal potential for expanding dual-education coverage is concentrated precisely in technical colleges with large learner populations but low coverage rates.

Accordingly, priority should be given in such technical colleges to expanding cooperation with employers, identifying occupations and specialties suitable for dual education, and gradually engaging learners in dual programmes.

### 6.3. Technical Colleges with High Coverage and Distribution of Dual-Education Learners

Separately analysing the results of technical colleges with high dual-education coverage makes it possible to assess the contribution of institutions that have implemented this form of education extensively to nationwide indicators.

According to the analysis, **206 technical colleges have dual-education coverage of 20 per cent or above**. They represent **30.3 per cent** of all technical colleges covered by the analysis. These technical colleges enrol **116 523 learners**, or **26.3 per cent** of all learners. At the same time, they account for **40 676 dual-education learners, or 67.1 per cent** of the national total.

The number of technical colleges with dual-education coverage of **40 per cent or above** is **53**, equivalent to **7.8 per cent** of all technical colleges. Although these institutions enrol only **29 052 learners**, or **6.6 per cent** of all learners, they have **15 713 dual-education learners**. This represents **25.9 per cent** of all dual-education learners nationwide.

| Coverage group | Number of technical colleges   | Total learners           | Learners in dual education |
|----------------|--------------------------------|--------------------------|----------------------------|
| 20% and above  | 206 technical colleges (30.3%) | 116 523 learners (26.3%) | 40 676 learners (67.1%)    |
| 40% and above  | 53 technical colleges (7.8%)   | 29 052 learners (6.6%)   | 15 713 learners (25.9%)    |

**Table 8. Aggregated indicators for technical colleges with high dual-education coverage, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

The results show that the majority of dual-education learners are concentrated in technical colleges with high coverage rates. In particular, **206 technical colleges enrolling 26.3 per cent** of all learners account for **67.1 per cent** of dual-education learners nationwide.

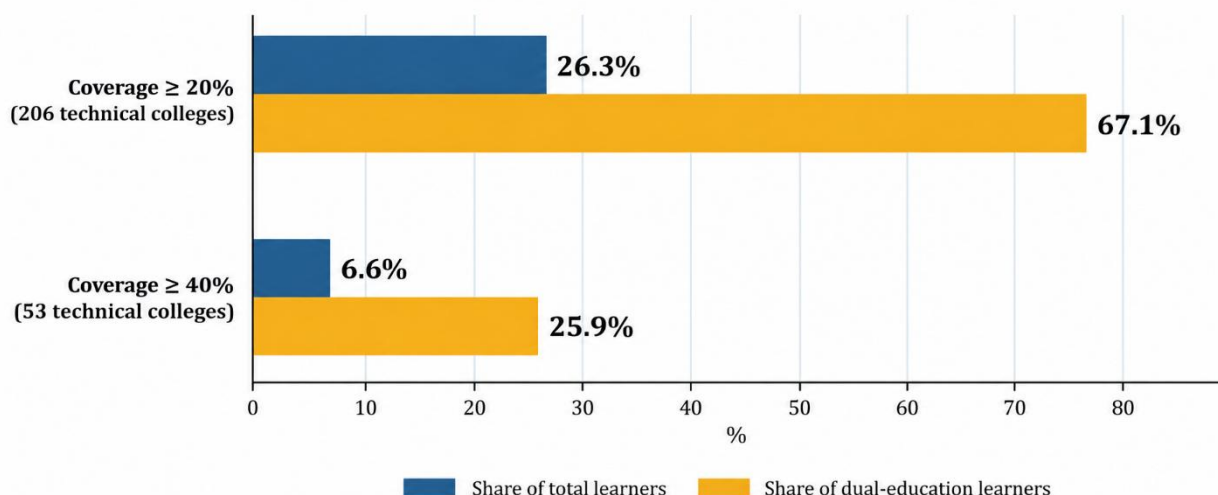


**Figure 7. Share of total learners and dual-education learners in technical colleges with high coverage, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

Studying the experience of technical colleges with high coverage can help identify effective **models for cooperation with employers**, occupations and **specialties suitable for dual education**, **integration of the educational process with production**, and **assignment of learners to enterprises**.

However, it would be incorrect to interpret a high coverage rate as an independent measure of education quality. It should be examined together with graduate employment, occupational skills and employer assessments.

## VII. DUAL-EDUCATION COVERAGE BY REGION

### 7.1. Overall Indicators by Region

Analysing dual-education coverage by region makes it possible to identify that it is not evenly distributed nationwide. Regional results may be affected by the number of technical colleges and learners, the composition of fields of study, the scale of cooperation with employers and the availability of practical-training bases. Additional data for each region are required, however, to determine the influence of these factors.

Nationwide dual-education coverage was **13.7 per cent**. By region, the indicator ranged from **7 per cent to 24.8 per cent**. The difference between the highest and lowest regional coverage rates was **17.8 percentage points**.

| Region                     | Number of technical colleges | Total learners | Learners in dual education | Share in dual education | Technical Colleges with no dual education |
|----------------------------|------------------------------|----------------|----------------------------|-------------------------|-------------------------------------------|
| Jizzakh                    | 33                           | 21 176         | 5 258                      | 24.8%                   | 8                                         |
| Namangan                   | 54                           | 36 833         | 6 652                      | 18.1%                   | 12                                        |
| Khorezm                    | 44                           | 21 476         | 3 577                      | 16.7%                   | 11                                        |
| Andijan                    | 60                           | 44 455         | 7 243                      | 16.3%                   | 14                                        |
| Fergana                    | 68                           | 60 029         | 9 247                      | 15.4%                   | 17                                        |
| Navoi                      | 27                           | 14 571         | 1 981                      | 13.6%                   | 7                                         |
| Kashkadarya                | 66                           | 47 074         | 6 359                      | 13.5%                   | 23                                        |
| Bukhara                    | 43                           | 27 364         | 3 576                      | 13.1%                   | 14                                        |
| Tashkent Region            | 64                           | 37 123         | 4 601                      | 12.4%                   | 14                                        |
| Syrdarya                   | 25                           | 11 465         | 1 401                      | 12.2%                   | 7                                         |
| Republic of Karakalpakstan | 48                           | 24 350         | 2 756                      | 11.3%                   | 11                                        |
| Surkhandarya               | 53                           | 30 065         | 3 073                      | 10.2%                   | 17                                        |
| Samarkand                  | 64                           | 49 915         | 3 779                      | 7.6%                    | 21                                        |
| Tashkent City              | 30                           | 16 331         | 1 151                      | 7.0%                    | 18                                        |
| <b>Total</b>               | <b>679</b>                   | <b>442 227</b> | <b>60 654</b>              | <b>13.7%</b>            | <b>194</b>                                |

**Table 9. Dual-education indicators by region, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

The highest dual-education coverage was recorded in **Jizzakh Region at 24.8 per cent**. It was followed by **Namangan Region at 18.1 per cent**, **Khorezm Region at 16.7 per cent**, **Andijan Region at 16.3 per cent** and **Fergana Region at 15.4 per cent**.

Coverage in these **five regions** was **above the national average**.

The results in **Navoi Region (13.6 per cent)** and **Kashkadarya Region (13.5 per cent)** were close to the national average. Coverage in **Bukhara**,

**Tashkent, Syrdarya and Surkhandarya Regions and the Republic of Karakalpakstan** ranged from **10.2 to 13.1 per cent**.

The lowest results were recorded in **Tashkent City, at 7 per cent**, and **Samarkand Region, at 7.6 per cent**. Dual-education coverage by region and its relation to the national average are presented in Figure 8.

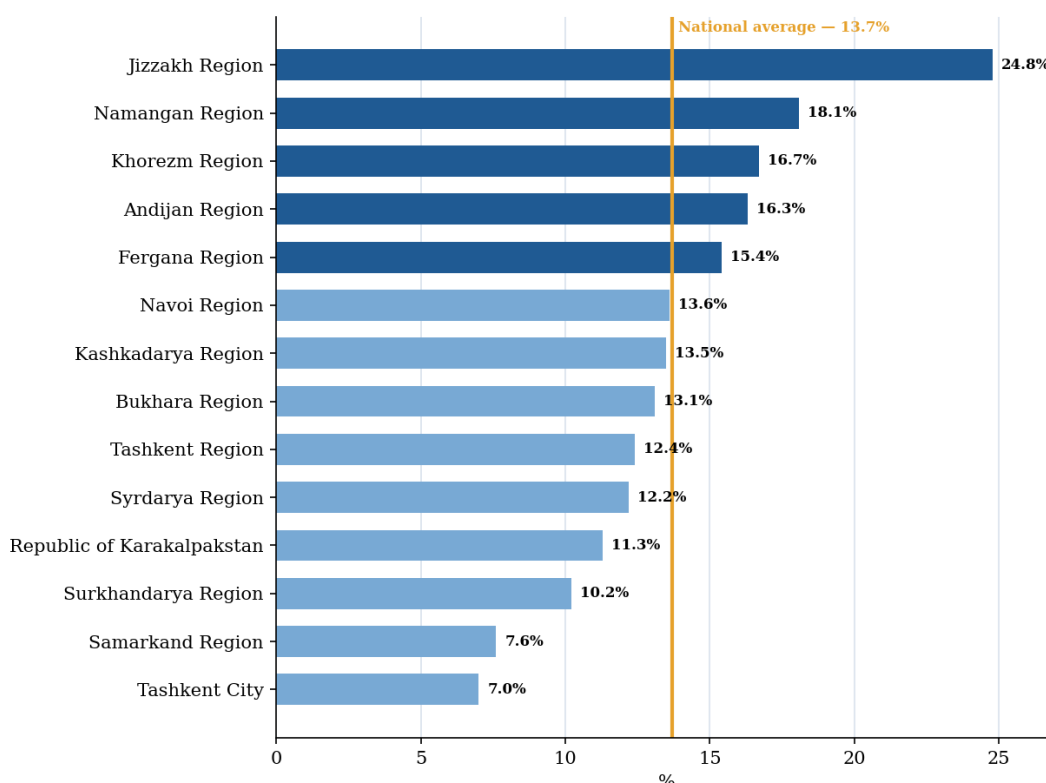


**Figure 8. Dual-education coverage by region, 30 May 2026**

Source: Author’s calculations based on data from the Prof-emis.edu.uz information system.

Substantial differences between regional indicators show that expanding dual education **requires targeted measures** that take account of the education and labour-market characteristics of each region, rather than relying solely on a uniform approach.

## 7.2. Regional Distribution of Dual-Education Learners

When assessing regional results, it is necessary to consider not only the coverage rate but also the absolute number of learners studying in dual education.

A region with a large learner population may make a significant contribution to the national result even at a relatively lower coverage rate.

The highest absolute number of dual-education learners was recorded in **Fergana Region**, at **9 247**. It was followed by **Andijan Region** with **7 243**, **Namangan Region** with **6 652**, **Kashkadarya Region** with **6 359**, and **Jizzakh Region** with **5 258**.

A total of **34 759 learners** study in dual education in these **five regions**. This is equivalent to **57.3 per cent** of all dual-education learners nationwide.

The remaining **nine regions** account for **25 895 learners**, or **42.7 per cent**.

The number of dual-education learners by region is presented in Figure 9.

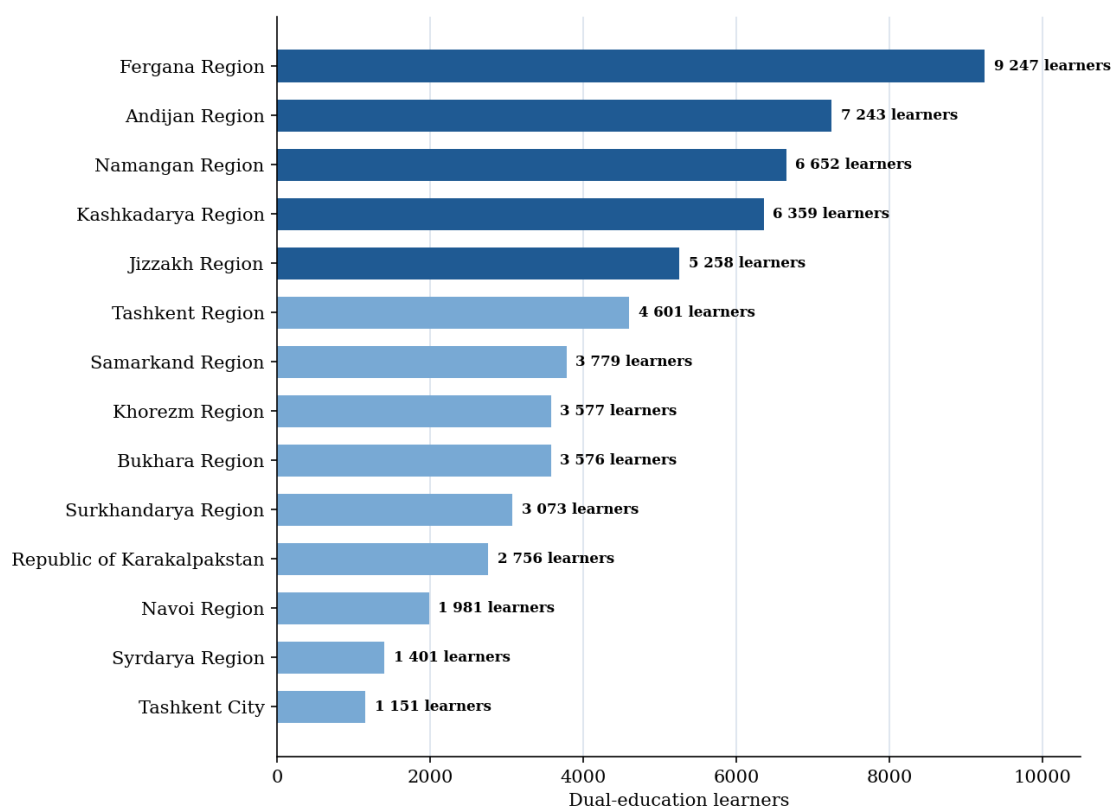


**Figure 9. Number of dual-education learners by region, 30 May 2026**

Source: Author's calculations based on data from the Prof-emis.edu.uz information system.

Regional rankings by absolute number and by coverage rate are not the same. For example, **Fergana Region** ranks first by the number of dual-education learners, but fifth by coverage rate, at **15.4 per cent**.

Jizzakh Region, by contrast, ranks fifth by absolute number with **5 258 learners**, but **first by coverage rate at 24.8 per cent**.

This difference demonstrates **the need to interpret together both the number of dual-education learners and their share of total learner enrolment** when assessing regional results.

### **7.3. Regional Distribution of Technical Colleges with No Learners Recorded in Dual Education**

Nationwide, **194 technical colleges have no learners studying in dual education**. The regional distribution of these technical colleges is uneven.

The number of technical colleges without dual education is **23 in Kashkadarya Region** and **21 in Samarkand Region**. In **Tashkent City** the figure is **18**, while **17** are recorded in each of **Fergana** and **Surkhandarya Regions**. **These five regions account for 96 technical colleges without dual education, or 49.5 per cent of the total.**

The total number of technical colleges in these regions and the share of technical colleges without dual education are presented in Table 10.

| Region        | Total technical colleges | Technical Colleges with no dual education | Share of technical colleges in the region |
|---------------|--------------------------|-------------------------------------------|-------------------------------------------|
| Kashkadarya   | 66                       | 23                                        | 34.8%                                     |
| Samarkand     | 64                       | 21                                        | 32.8%                                     |
| Fergana       | 68                       | 17                                        | 25.0%                                     |
| Surkhandarya  | 53                       | 17                                        | 32.1%                                     |
| Tashkent City | 30                       | 18                                        | 60.0%                                     |

**Table 10. Regions with the highest numbers of technical colleges without dual education, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the regional share was calculated as the number of technical colleges without dual education divided by the total number of technical colleges in the relevant region.

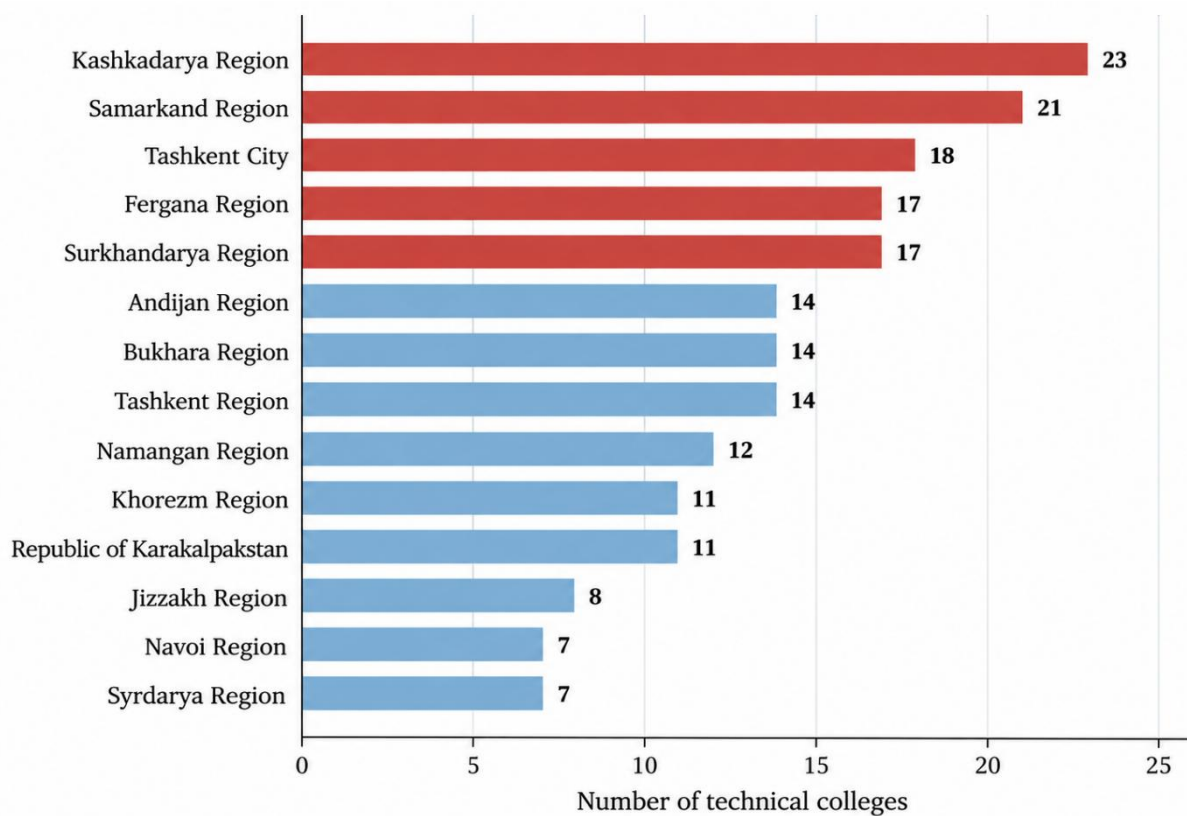


**Figure 10. Regional distribution of technical colleges without dual education, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the five regions with the highest value for this indicator are highlighted in red.

Assessing both the absolute number and the relative share within the region makes it possible to interpret the results more accurately.

For example, although **Tashkent City** has **18 technical colleges** without dual education, these institutions represent **60 per cent** of the city's total of **30 technical colleges**.

This is the highest regional share nationwide. In **Fergana Region**, where 17 technical colleges record no dual education, the share is **25 per cent**, while in **Surkhandarya Region** it is **32.1 per cent**.

The results show that, **when determining measures to expand dual education, it is necessary to consider not only the absolute number of technical colleges without dual education, but also their share of all technical colleges in the respective region.**

In this context, the completeness of data, employer demand for the relevant occupations, and opportunities for organising dual-education programmes should be examined separately for each region.

## 7.4. Additional Coverage Required to Reach 20 Per Cent by Region

The additional coverage requirement by region was calculated on the assumption that the share of dual education in each region is increased to the **20 per cent analytical interim level**.

This indicator is an analytical benchmark used to assess opportunities for progressing gradually towards the official **40 per cent** target established for 2030.

According to the calculations, all regions except Jizzakh Region require additional coverage. The results for the five regions with the highest additional requirement are presented in Table 11.

| Region          | Total learners | Learners in dual education | Share in dual education | Additional coverage required to reach 20 per cent |
|-----------------|----------------|----------------------------|-------------------------|---------------------------------------------------|
| Samarkand       | 49 915         | 3 779                      | 7.6%                    | 6 204 learners                                    |
| Kashkadarya     | 47 074         | 6 359                      | 13.5%                   | 3 056 learners                                    |
| Surkhandarya    | 30 065         | 3 073                      | 10.2%                   | 2 940 learners                                    |
| Tashkent Region | 37 123         | 4 601                      | 12.4%                   | 2 824 learners                                    |
| Fergana         | 60 029         | 9 247                      | 15.4%                   | 2 759 learners                                    |
| <b>Total</b>    | <b>224 206</b> | <b>27 059</b>              | <b>12.0%</b>            | <b>17 783 learners</b>                            |

**Table 11. Regions with the greatest additional requirement to reach 20 per cent dual-education coverage, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the additional coverage requirement was calculated as the difference between 20 per cent of the total number of learners in each region and the current number of dual-education learners.

The largest additional requirement was recorded in **Samarkand Region**, where an additional **6 204 learners** would need to be engaged in dual education to raise regional coverage to **20 per cent**.

The corresponding requirement is **3 056 learners in Kashkadarya Region**, **2 940 in Surkhandarya Region**, **2 824 in Tashkent Region**, and **2 759 in Fergana Region**.

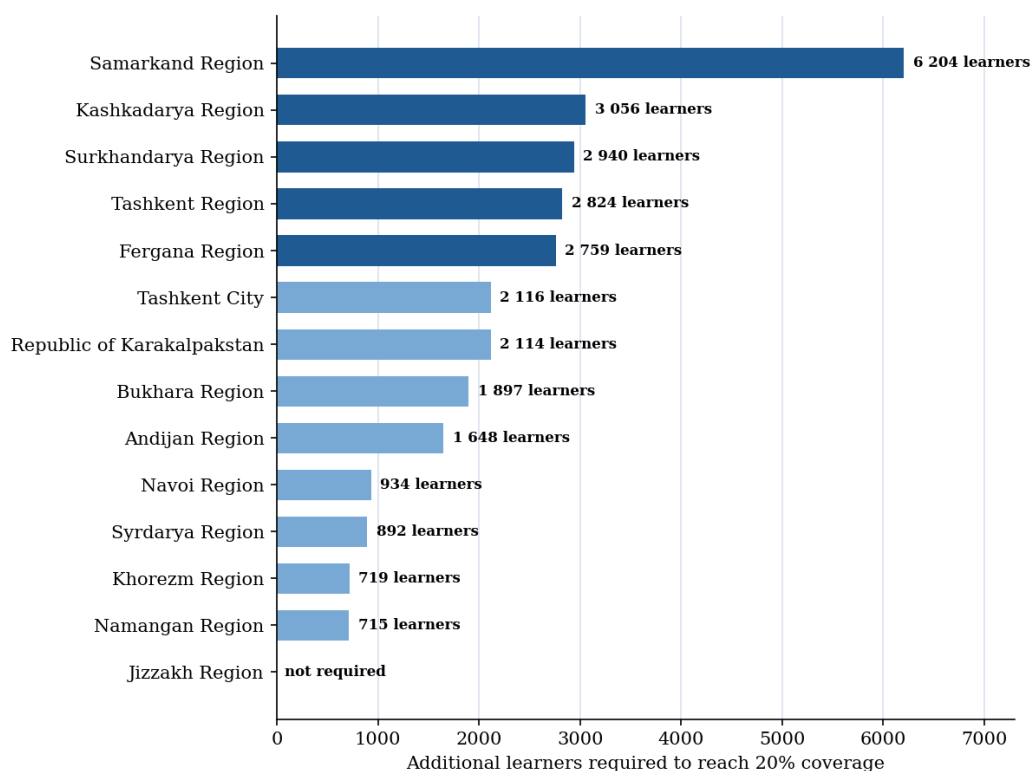


**Figure 11. Additional coverage required to raise dual-education coverage to 20 per cent by region, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the five regions with the highest additional coverage requirement are highlighted in dark blue. No additional requirement was calculated for Jizzakh Region because its current coverage is 24.8 per cent.

To bring each region separately to the **20 per cent** level would require additional coverage of **28 818 learners** in total. This is **1 026** more than the nationwide aggregate gap of **27 792 learners**.

This difference is explained by the fact that Jizzakh Region's result above 20 per cent partly offsets the national aggregate indicator and by the rounding of regional calculations to whole numbers. The **five regions** with the greatest additional requirement account for **17 783 learners**, or **61.7 per cent of the total requirement**.

The additional requirement identified by region should be assessed in the context of the long-term objectives for developing vocational education.

Resolution No. PR-316 of the President of the Republic of Uzbekistan dated 23 October 2025, 'On Measures to Implement Reforms in the Vocational Education System', provides for increasing the coverage of Grade 9 graduates

by vocational education to **50 per cent** and the share of dual education in the vocational education system to **40 per cent** by 2030.

On this basis, the **20 per cent** analytical benchmark used in this section serves to assess the initial requirement for expanding coverage in the regions.

Assuming that the current number of learners remains unchanged, a scenario in which the share of dual education is increased to at least **40 per cent** in each region would require **additional coverage of 116 242 learners** in total.

In this calculation, the requirement for each region was rounded upward separately. The calculation is used to compare regions and does not mean that the Resolution establishes a separate mandatory 40 per cent target for each region.

As the target share increases, the regional distribution of the additional requirement also changes. Under the **40 per cent** scenario, the largest requirement is **16 187 learners** in Samarkand Region, **14 765** in Fergana Region, **12 471** in Kashkadarya Region, **10 539** in Andijan Region, and **10 249** in Tashkent Region.

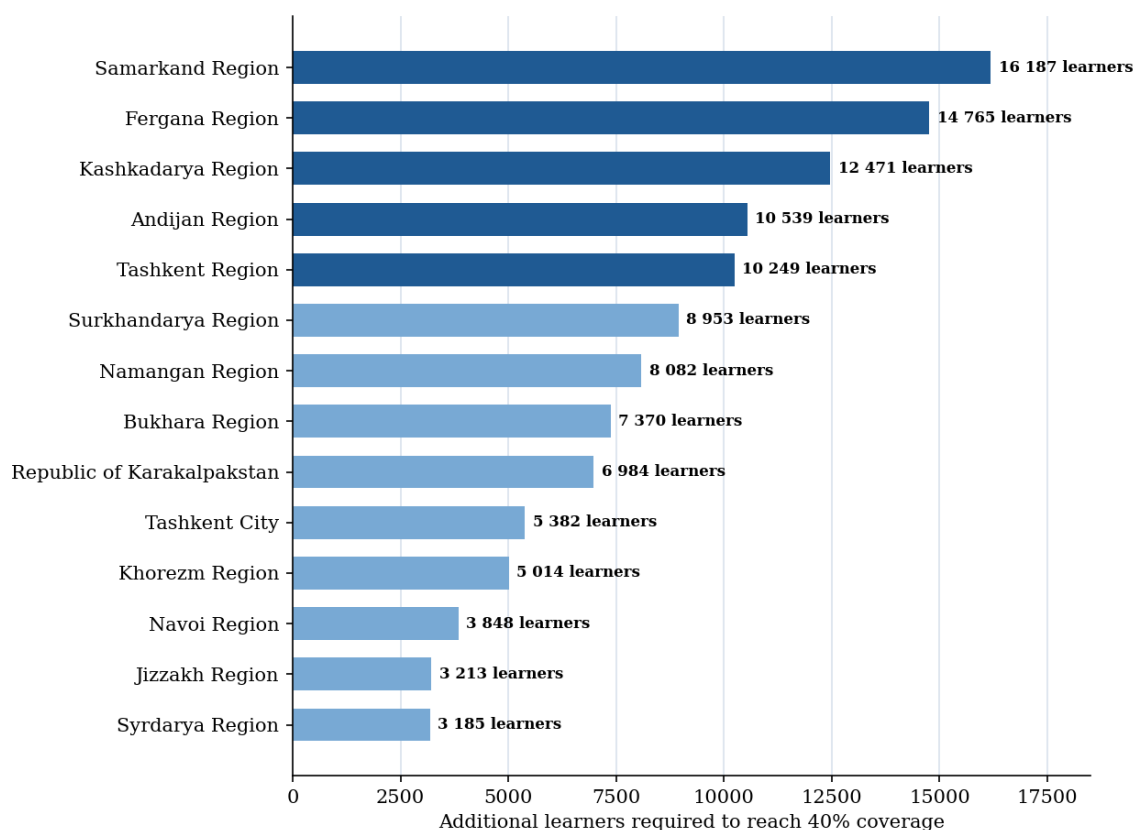


**Figure 12. Additional coverage required to raise dual-education coverage to 40 per cent by region, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Even in Jizzakh Region, which already exceeds the 20 per cent benchmark, an additional **3 213 learners** would need to be engaged to achieve 40 per cent coverage. Regional priorities should therefore be reassessed according to the coverage level that is intended to be achieved.

In the address of the President of the Republic of Uzbekistan dated 28 August 2026, an initiative was announced to increase technical college **learner enrolment to 1 million**.<sup>12</sup>

If total technical college enrolment reaches **1 million** in the future and a **40 per cent** dual-education share is applied to this population, **400 thousand learners** would need to be covered by dual education.

<sup>12</sup> Address by the President of the Republic of Uzbekistan at the ceremony dedicated to the thirty-fifth anniversary of state independence. URL: <https://president.uz/oz/lists/view/9544>

This is **339 346 more** than the **60 654 learners** recorded in this report. The figure represents an analytical scenario based on the combined application of the two indicators.

Accordingly, in addition to reducing the existing coverage gap, regional plans should create dual-education opportunities for learners who will enter vocational education in future years.

For each region, annual admission volumes, the number of continuing learners and graduates, employers' capacity to accept learners, and occupations with high demand should be taken into account.

Additional coverage should be supported by practical-training places agreed with enterprises, the necessary equipment, qualified mentors and training schedules. This approach will make it possible to link increased regional coverage with high-quality vocational preparation and subsequent employment of learners.

## VIII. DUAL-EDUCATION COVERAGE BY OCCUPATION AND SPECIALTY

### 8.1. Distribution of the Dual-Education Learner Population by Principal Field

Analysis by occupation and specialty shows that the dual-education learner population is not evenly distributed across fields. A total of **40 271 learners** study in the **ten occupations and specialties** with the highest numbers of dual-education learners. This represents **66.4 per cent** of the **60 654 dual-education learners** nationwide. The remaining occupations and specialties account for **20 383 learners**, or **33.6 per cent**.

The three leading fields—**preschool education organisation educator**, **automobile repair and maintenance**, and **tailoring**—account for **27 962 dual-education learners** in total. This represents **46.1 per cent** of the nationwide dual-education learner population.

Detailed indicators for the occupations and specialties with the highest numbers of dual-education learners are presented in Table 12.

| Occupation and specialty                                | Total learners | In dual education | Share        | Number of technical colleges |
|---------------------------------------------------------|----------------|-------------------|--------------|------------------------------|
| Preschool education organisation educator               | 13 823         | 10 931            | 79.1%        | 138                          |
| Automobile repair and maintenance                       | 82 403         | 9 131             | 11.1%        | 397                          |
| Tailor                                                  | 26 395         | 7 900             | 29.9%        | 358                          |
| Motor vehicle maintenance and repair                    | 5 698          | 2 397             | 42.1%        | 170                          |
| Tractor operator-mechanic                               | 20 906         | 2 266             | 10.8%        | 183                          |
| Preschool education organisation methodologist          | 3 598          | 2 035             | 56.6%        | 59                           |
| Water management and land reclamation                   | 2 493          | 1 776             | 71.2%        | 48                           |
| Cook                                                    | 5 749          | 1 505             | 26.2%        | 113                          |
| Salesperson, controller-cashier                         | 5 460          | 1 454             | 26.6%        | 84                           |
| Veterinary medicine                                     | 1 843          | 876               | 47.5%        | 59                           |
| <b>Total for the top 10 occupations and specialties</b> | <b>168 368</b> | <b>40 271</b>     | <b>23.9%</b> | <b>-</b>                     |

**Table 12. Occupations and specialties with the highest numbers of dual-education learners, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

The absolute numbers of dual-education learners in these occupations and specialties are presented comparatively in Figure 13.

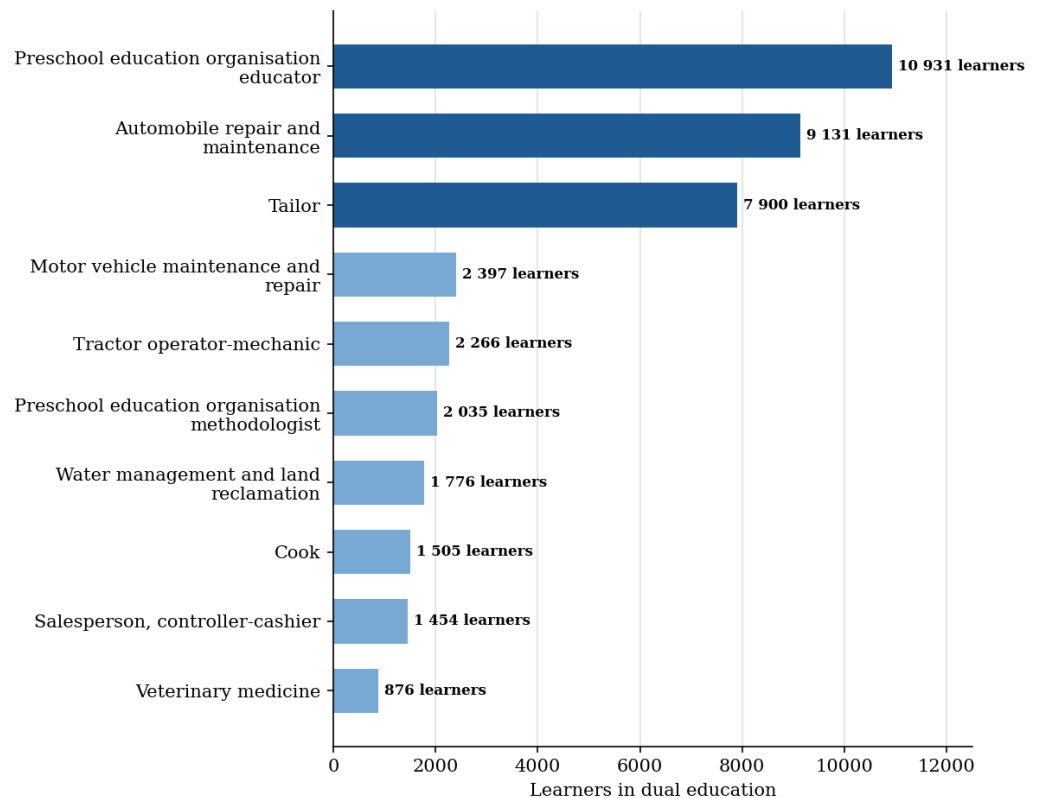


**Figure 13. Occupations and specialties with the highest numbers of dual-education learners, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the three fields with the highest numbers of dual-education learners are highlighted in dark blue.

The highest absolute result was recorded for **preschool education organisation educators: 10 931 of 13 823 learners** study in dual education, giving a coverage rate of **79.1 per cent**.

**Automobile repair and maintenance** has the second-highest number of dual-education learners, at **9 131**; however, relative to the field's total enrolment of **82 403 learners**, coverage is **11.1 per cent**.

In **tailoring**, **7 900 of 26 395 learners** are in dual education, corresponding to a coverage rate of **29.9 per cent**.

The results show that **the absolute number of dual-education learners and the coverage rate do not always produce the same ordering**. Therefore, occupations and specialties should be assessed by interpreting together the number of dual-education learners, their share of the relevant field's learner population, and the number of technical colleges in which the field is offered.

## 8.2. Fields with No Dual Education Recorded

Analysis by occupation and specialty shows that, in some fields, no learners studying in dual education are recorded despite high learner populations and a large number of technical colleges offering those fields.

A total of **120 657 learners** study in the **ten occupations and specialties** with the largest learner populations in which no dual education is recorded. This is equivalent to **27.3 per cent** of the **442 227 learners** covered by the analysis. Results for these fields are presented in Table 13.

| Occupation or specialty                                | Total learners | Number of technical colleges |
|--------------------------------------------------------|----------------|------------------------------|
| Nursing                                                | 63 675         | 120                          |
| Feldsher practice                                      | 13 143         | 87                           |
| General medical practice                               | 12 314         | 75                           |
| Information equipment, machinery and computer networks | 11 628         | 136                          |
| Pharmacy                                               | 7 888          | 92                           |
| Functional diagnostics                                 | 3 968          | 50                           |
| Medical brigade nurse                                  | 3 429          | 46                           |
| Dentistry                                              | 2 518          | 46                           |
| Mining worker                                          | 1 070          | 13                           |
| Construction worker                                    | 1 024          | 27                           |

**Table 13. Occupations and specialties with the largest learner populations in which no dual education is recorded, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the number of technical colleges refers to the technical colleges in which the relevant occupation or specialty is offered. Because one technical college may offer several fields, no aggregate total is calculated for the number of technical colleges.

The largest learner population was recorded in **nursing**. This field is offered in **120 technical colleges** and enrolls **63 675 learners**. **No dual-education learners were recorded** despite enrolment of **13 143 learners in feldsher practice**, **12 314 in general medical practice**, and **7 888 in pharmacy**.

The field of **information equipment and computer networks** is offered in **136 technical colleges** and enrolls **11 628 learners**. This shows that cases in which no dual education is recorded are not limited to medical fields.

The learner populations in these occupations and specialties are presented comparatively in Figure 14.

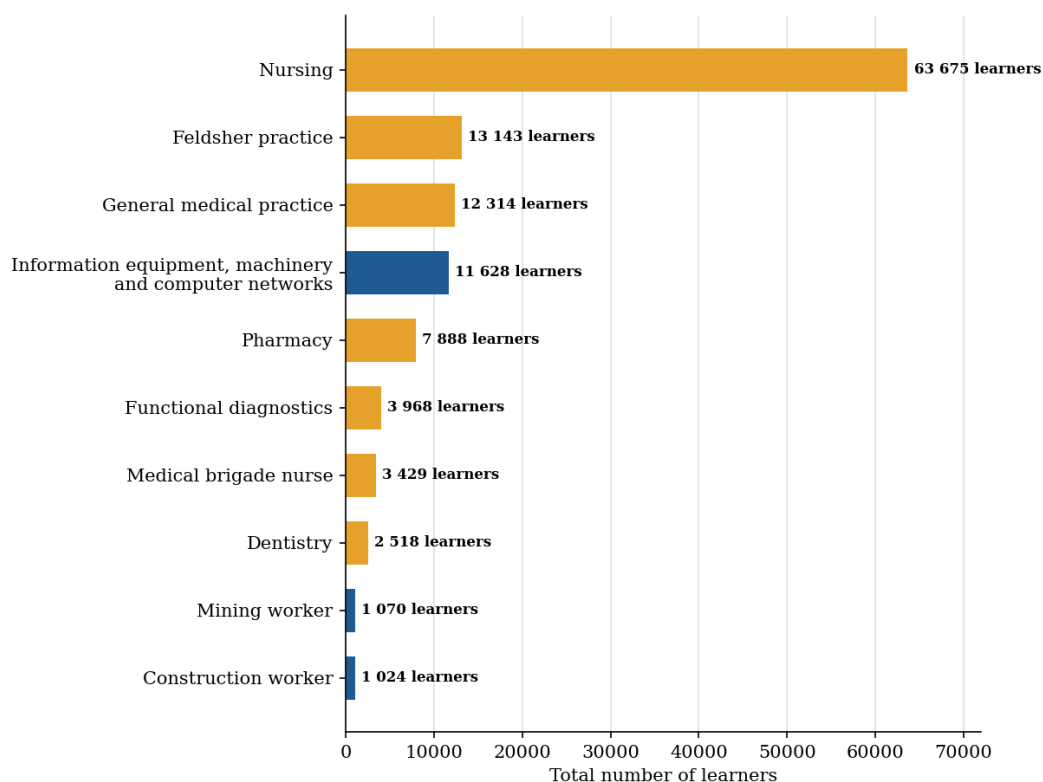


**Figure 14. Learner population in occupations and specialties with no dual education recorded, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: medical fields are shown in yellow, and other occupations and specialties are shown in blue.

A total of **106 935 learners** study in the **seven medical fields** included in the table. This represents **88.6 per cent** of the learner population of the ten largest fields in which no dual education is recorded. This result indicates the need to examine separately how dual education is organised in medical fields and how it is reflected in the information system.

At the same time, a zero value for the dual-education indicator does not mean that practical classes or workplace practice are entirely absent in the relevant fields. Practical training may not have been formalised in accordance with the organisational and legal requirements for dual education, or the data may not be fully reflected in the Prof-emis.edu.uz system.

Accordingly, the **actual availability of dual-education programmes in these occupations and specialties, contracts concluded with employers, practical-training places, occupational-safety requirements and the completeness of data in the information system** should be verified separately.

## IX. INDICATOR RESULTS BY TECHNICAL COLLEGE

### 9.1. Leading Technical Colleges in the Principal Ranking Group

The results of the **556** state technical colleges participating in the principal ranking group show substantial differences in dual-education coverage. The highest indicator value was normalised against the maximum result within the relevant group and calculated on an **8-point** scale.

| Rank | Technical College name                        | Total learners | In dual education | Share | Score |
|------|-----------------------------------------------|----------------|-------------------|-------|-------|
| 1    | Yangiyer City Technical College               | 118            | 103               | 87.3% | 8.00  |
| 2    | Tashkent Region Pedagogical Technical College | 437            | 377               | 86.3% | 7.91  |
| 3    | Kashkadarya Pedagogical Technical College     | 731            | 564               | 77.2% | 7.07  |
| 4    | Karakul Pedagogical Technical College         | 553            | 412               | 74.5% | 6.83  |
| 5    | Dangara District Technical College No. 3      | 946            | 680               | 71.8% | 6.59  |

**Table 14. Leading technical colleges by dual-education coverage in the principal ranking group, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

**Yangiyer City Technical College** led the principal ranking group. Of its **118 learners**, **103** were studying in dual education, giving a coverage rate of **87.3 per cent** and a ranking score of **8 points**.

**Tashkent Region Pedagogical Technical College** recorded dual-education coverage of **86.3 per cent** and a ranking score of **7.91 points**. It was followed by **Kashkadarya Pedagogical Technical College** at **77.2 per cent**, **Karakul Pedagogical Technical College** at **74.5 per cent**, and **Dangara District Technical College No. 3** at **71.9 per cent**.

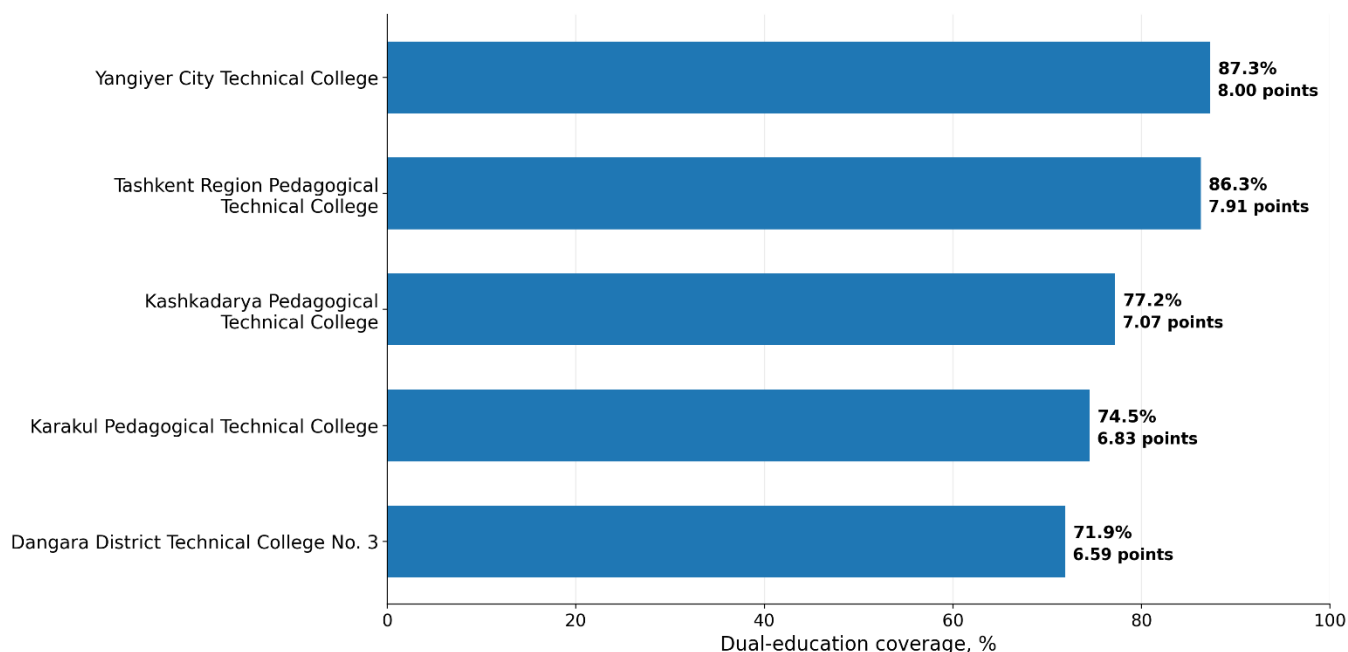


**Figure 15. Leading technical colleges by dual-education coverage in the principal ranking group, 30 May 2026**

Source: Author's calculations based on Prof-emis.edu.uz data.

Note: the columns show dual-education coverage, while the additional figures beside them indicate ranking scores.

The **five leading technical colleges** enrol a total of **2 785 learners**, of whom **2 136 are covered by dual education**. Their combined coverage rate is **76.7 per cent**.

However, learners in these five technical colleges represent only **0.6 per cent** of total nationwide enrolment, while their dual-education learners account for **3.5 per cent** of the national dual-education learner population. It is therefore not appropriate to equate high percentage results directly with their impact on nationwide coverage.

**Three** of the five leading technical colleges are, by name, specialised in pedagogy. When studying their experience, **the composition of partner employers, practical-training places, dual-education contracts, fields of study and size of the learner population** should be considered together.

## 9.2. Interpretation of Indicator Results

Results by technical college show substantial differences in dual-education coverage. While the highest coverage in the principal ranking group was **87.3 per cent**, the indicator was zero in **121** technical colleges. This means that dual education has penetrated the technical college system to differing degrees.

When interpreting ranking results, the relative nature of the indicator should be taken into account. In particular, at first-ranked Yangiyer City Technical College, **103** of **118 learners** study in dual education, resulting in coverage of **87.3 per cent**. At fifth-ranked Dangara District Technical College No. 3, however, the number of dual-education learners is **680**—approximately **6.6 times** the figure at the first-ranked technical college. Nevertheless, because coverage relative to total learner enrolment is **71.8 per cent**, its ranking score is lower.

This comparison shows that **ranking position is based not on the absolute number of dual-education learners, but on their share of the technical college's total learner population**. A high ranking score therefore does not mean that the technical college makes the largest absolute contribution to the national dual-education learner population.

Likewise, a maximum score of 8 points does not automatically confirm that the quality of dual education is fully assured or that established strategic targets have been achieved. The ranking score is normalised against the highest coverage rate in the relevant group. It does not directly assess implementation of contracts, alignment of workplaces with the education programme, qualifications of workplace mentors, programme completion by learners or graduate employment.

This indicator serves to determine the scale of coverage; assessing the content and quality of dual education requires additional indicators.

Differences in results among technical colleges demonstrate the need to examine quality-assurance mechanisms alongside the expansion of dual education. Accordingly, the next chapter analyses **international experience** and **quality criteria** relating to the organisation and assessment of dual education.

## X. INTERNATIONAL EXPERIENCE AND QUALITY CRITERIA FOR DUAL EDUCATION

### 10.1. International Criteria for Quality Dual Education

In international practice, the effectiveness of dual education is determined by the alignment of theoretical preparation in the educational organisation with practical workplace training, employer responsibility, legal protection of the learner, and formal recognition of acquired skills.

The International Labour Organization's **Recommendation No. 208 concerning Quality Apprenticeships** sets out the key features of programmes that combine training in the workplace and in an educational organisation.

According to the Recommendation, such training should be organised on the basis of a written agreement, include a clearly structured training programme, provide for wages or other financial remuneration for the learner, and lead to a recognised qualification.<sup>13</sup>

The Recommendation makes it possible to identify the following interrelated criteria for organising quality dual education within national systems:

- **legal and organisational clarity** – the rights, obligations and responsibilities of the educational organisation, employer and learner should be clearly defined in a written agreement;
- **integrity of learning content** – theoretical instruction in the educational organisation and practical workplace training should be based on a unified system of competencies;
- **workplace readiness** – the enterprise should have the necessary equipment, safe working conditions and a qualified mentor to supervise the learner;
- **legal and social protection of the learner** – working and rest time, financial remuneration, occupational safety, social protection and dispute-resolution procedures should be guaranteed;

---

<sup>13</sup> International Labour Organization. *Quality Apprenticeships Recommendation, 2023 (No. 208)*, paragraphs 1, 6–9 and 15–19. URL: <https://www.ilo.org/publications/guide-policymakers-quality-apprenticeships-recommendation-2023-no-208> (accessed: 21.08.2026).

– **assessment and recognition of outcomes** – the occupational competencies acquired by the learner should be independently assessed and confirmed through a formally recognised qualification.

Under the international approach, the employer is regarded not merely as a provider of practical-training places, but as a **jointly responsible partner for the content of education, the training process and the quality of outcomes**. Participation by public authorities, employers and employee representatives in programme development, implementation, monitoring and assessment is likewise an important condition for quality assurance.

From the perspective of these criteria, the indicator calculated in this review describes the **quantitative coverage** of dual education. It does not, however, directly assess the content and implementation of contracts, alignment of workplaces with the training programme, mentor qualifications, occupational safety of learners, programme-completion rates or subsequent graduate employment.

Accordingly, future monitoring of dual education should not be limited to a coverage indicator, but should be supplemented by additional indicators covering the **validity and implementation of contracts, employer participation, the quality of workplace training, programme completion and employment** outcomes. This would make it possible to assess both the scale of dual education and its content and practical effectiveness.

## **10.2. Organisation and Quality Control of Dual Vocational Education in Germany**

A key feature of Germany's dual vocational education system is the parallel organisation of training in an **enterprise and a vocational education institution**. The learner concludes a vocational-training contract with the enterprise and, during the training period, simultaneously has the status of learner and employee of the enterprise. The enterprise provides practical workplace training and pays the learner financial remuneration in accordance with the established procedure.<sup>14</sup>

In Germany, the content of workplace training is defined by national training regulations developed for each officially recognised occupation. These

---

<sup>14</sup> Bundesinstitut für Berufsbildung. *The Dual System: Young People Study in the Company and at School*. URL: <https://www.bibb.de/en/77203.php> (accessed: 21.08.2026).

regulations set out the occupational title, duration of training, knowledge and competencies to be acquired, the distribution of training content over time, and requirements for the final examination.

This helps ensure a **common minimum standard of vocational preparation** regardless of the enterprise in which the learner is trained.

On the basis of the general training regulation, the enterprise develops an individual practical-training plan for each learner.

This plan is submitted to the competent chamber together with the vocational-training contract. In this way, workplace training is not confined to the enterprise's day-to-day operations, but is directed towards developing the prescribed occupational skills.

Chambers of industry and commerce and chambers of crafts play a distinct role in assuring the quality of dual education.

They register vocational-training contracts, assess whether the enterprise and workplace mentors meet established requirements, provide methodological advice to enterprises, and organise intermediate and final examinations.<sup>15</sup>

As a result, powers are separated between the enterprise providing training and the body supervising its activities and assessing final skills.

The German experience demonstrates that the quality of dual education is not assured merely by the existence of a contract between an educational organisation and an enterprise.

It requires the combined operation of mechanisms covering the **enterprise's capacity to provide training, the qualifications of workplace mentors, a common occupational training standard, regular external supervision and independent final assessment.**

It would not be appropriate to transfer this experience directly to Uzbekistan because the institutional and economic conditions of the two countries differ.

Nevertheless, certain mechanisms from the German model have practical relevance for improving the quality of dual education in technical colleges. These include prior assessment of the readiness of enterprises accepting dual-

---

<sup>15</sup> Bundesinstitut für Berufsbildung. *Competent Bodies in Germany*. URL: <https://www.bibb.de/en/146199.php> [\[accessed: 21.08.2026\]](#).

education learners, development of a workplace training plan for each learner, assignment of a qualified mentor, maintenance of contracts in a unified electronic register, and improvement of mechanisms for external assessment of acquired skills.

These approaches can help ensure that the expansion of dual-education coverage is **supported by real workplaces and high-quality vocational preparation**.

### 10.3. Partnership-Based Governance of Dual Education in Switzerland

Switzerland's vocational education system is governed on the basis of **shared responsibility among the Confederation, the cantons and professional organisations**.

These three parties perform coordinated functions in aligning education content with labour-market needs, ensuring a sufficient supply of practical-training places, and assuring the quality of vocational preparation.<sup>16</sup>

The Confederation is responsible for strategic governance of the vocational education system and for establishing general regulatory requirements.

The cantons implement vocational education programmes, supervise vocational education institutions and practical training in enterprises, and organise vocational guidance services for young people and adults.

Professional organisations include employer associations, sectoral associations, social partners and other bodies involved in the delivery of vocational education.

They participate in defining education content and competency requirements for the relevant occupations.

---

<sup>16</sup> State Secretariat for Education, Research and Innovation. *Swiss Vocational and Professional Education and Training System*, 2024.

URL:

[https://www.sbfi.admin.ch/dam/sbfi/en/dokumente/2024/07/bbch\\_2024.pdf.download.pdf/BBCH\\_2024\\_EN.pdf](https://www.sbfi.admin.ch/dam/sbfi/en/dokumente/2024/07/bbch_2024.pdf.download.pdf/BBCH_2024_EN.pdf) (accessed: 21.08.2026). [State Secretariat for Education, Research and Innovation. National and International Cooperation in the Education, Research and Innovation Sector. URL: https://www.sbfi.admin.ch/en/national-and-international-cooperation-in-the-eri-sector](https://www.sbfi.admin.ch/en/national-and-international-cooperation-in-the-eri-sector) (accessed: 21.08.2026).

Enterprises create practical-training places and assign specialists to supervise learners in the workplace.

Under this model, dual education is not limited to a bilateral relationship between an individual vocational education institution and an enterprise.

Responsibility for defining occupational standards, organising training, creating practical-training places and assuring quality is distributed among different stakeholders.

This makes it possible to reflect changes in labour-market requirements relatively quickly in education programmes and to ensure systematic employer participation.

An important aspect of the Swiss experience for Uzbekistan is the involvement of employers in the governance of dual education not only at the level of individual enterprises, but also through **sectoral associations** and **professional organisations**.

Such an approach can help combine the capacities of several enterprises where an individual technical college cannot secure enough practical-training places, establish common training requirements, and coordinate the quality of workplace preparation.

Taking into account the differences identified by region and occupation, it would be appropriate to strengthen mechanisms for coordinating dual education at sectoral and regional levels.

In particular, with the participation of employer associations, it is possible to identify demand for practical-training places by occupation, assess enterprises' training capacity, and establish shared cooperation networks for several technical colleges.

Likewise, in sectors such as **medicine, information technology, agriculture** and **industry**, rather than organising dual education under a single uniform procedure, **differentiated approaches should be applied that reflect sector-specific work processes, safety requirements and occupational skills**.

This would make it possible to adapt the content of dual education to different occupations and specialties.

#### **10.4. Opportunities for Applying International Approaches in Uzbekistan**

The recommendations of the International Labour Organization and the experience of Germany and Switzerland show that an effective model of dual education is based not on a single organisational mechanism, but on an interconnected set of legal, educational and economic instruments.

The principal features of these approaches and the areas in which they may be applied in Uzbekistan are summarised in Table 15.

| International approach                   | Core mechanism                                                                                                                                          | Significance for quality assurance                                                                                                 | Potential application in Uzbekistan                                                                                                          |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>International Labour Organization</b> | Written contract; coordinated learning at the workplace and education organisation; financial remuneration; social protection; recognised qualification | Establishes learners' rights, programme content and the responsibilities of the parties within a unified quality framework         | Monitor contracts, occupational safety, social protection, programme completion and qualification outcomes                                   |
| <b>Germany</b>                           | National vocational regulations; workplace training plan; qualified trainer; chamber oversight and independent examination                              | Brings the content of training across different enterprises into a comparable common standard                                      | Assess enterprise and trainer readiness; introduce a contract register, workplace training plans and external assessment                     |
| <b>Switzerland</b>                       | Shared responsibility of the state, regional authorities and professional organisations; definition of education content with sector participation      | Allows labour-market needs to be incorporated rapidly into education content and enables coordination of workplace training places | Develop sector associations and regional cooperation networks and apply a differentiated approach adapted to sector-specific characteristics |

**Table 15. International approaches to dual education and areas for their application in Uzbekistan**

Source: Compiled by the author on the basis of materials of the International Labour Organization, the German Federal Institute for Vocational Education and Training, and the Swiss State Secretariat for Education, Research and Innovation.

The comparative analysis identifies **four common principles** across international models:

- organising dual education on the basis of a formal contract and a clearly defined training programme;
- assessing the readiness of the enterprise and mentor;
- aligning education content with employers' needs;
- independent assessment and recognition of learning outcomes.

In Uzbekistan, it would be appropriate not to copy these mechanisms directly, but to adapt them to the specific characteristics of sectors and regions.

Based on international experience, monitoring of dual education in Uzbekistan should be structured in two interrelated **dimensions: the first should assess the scale of coverage, while the second should assess education quality and effectiveness.**

## XI. FINAL CONCLUSIONS AND PRACTICAL RECOMMENDATIONS

### 11.1. Key Conclusions of the Analysis

Based on data from the Prof-emis.edu.uz information system as of 30 May 2026, a comprehensive analysis was conducted of dual-education coverage in technical colleges nationwide, including results by **stage of study, form of ownership, region, occupation and specialty, and individual technical college.**

The analysis made it possible to formulate the following key conclusions.

**First**, a total of **442 227 learners** study in the **679** technical colleges for which data were available. Of these, **60 654 are covered by dual education, representing 13.7 per cent of the total.**

Assuming the current learner population remains unchanged, achieving the 40 per cent target for 2030 would require increasing the number of dual-education learners by an additional **116 237.**

**Second**, although dual education has been introduced in many technical colleges, coverage is uneven. There are dual-education learners in **485** technical colleges, while no dual education is recorded in **194** technical colleges.

The fact that **124 889 learners study in 191 of the technical colleges** recording zero results indicates that this group represents one of the principal reserves for increasing coverage.

**Third**, most dual-education learners are concentrated in technical colleges with high coverage. The **206** technical colleges with coverage of **20 per cent** or above account for **67.1 per cent** of all dual-education learners.

At the same time, **242** technical colleges with no dual education or coverage below **5 per cent** enrol **37.5 per cent** of all learners, but account for only **2.2 per cent** of the dual-education learner population.

**Fourth**, regional differences are substantial.

The highest coverage was recorded in Jizzakh Region at **24.8 per cent**, while the lowest result was recorded in Tashkent City at **7 per cent.**

Fergana, Andijan, Namangan, Kashkadarya and Jizzakh Regions account for **57.3 per cent** of all dual-education learners. This shows that a large share of dual-education learners nationwide is concentrated in a limited number of regions.

**Fifth**, the dual-education learner population is also unevenly distributed by stage of study. Of all dual-education learners, **74.6 per cent are studying at the first stage**.

Coverage is **17.6 per cent** at the first stage, **9.6 per cent** at the second stage and **1.8 per cent** at the third stage. This pattern has been shaped by new admissions.

**Sixth**, analysis by occupation and specialty shows that introducing dual education through the same approach across all **fields may not fully produce the expected** results.

A total of 120 657 learners study in the ten fields with the largest learner populations **in which** dual education is not recorded. **Of these, 106 935, or 88.6 per cent, are** in medical fields.

This demonstrates the need to apply organisational and legal mechanisms for developing dual education that take account of the specific characteristics of each sector.

**Seventh**, dual-education coverage remains low in non-state technical colleges. A total of **33 537 learners** study in the **51** technical colleges in this sector, of whom **381, or 1.1 per cent**, are covered by dual education.

Dual education is organised in **only three technical colleges**, and **97.9 per cent of the dual-education learners in the sector are concentrated in two technical colleges**. This shows that dual education has not yet been introduced widely in the non-state sector.

**Eighth**, the reliability of the analysis results depends on the completeness and accuracy of the data. Sixteen of the 695 technical colleges nationwide were excluded from the analysis because their data were incomplete. In addition, the information system does not contain interconnected data on partner employers, practical-training places, mentors, the validity of contracts or learners' subsequent employment.

These conclusions show that relying solely on the overall nationwide coverage indicator is insufficient for policy on expanding dual education. Subsequent practical measures should be targeted on the basis of each **technical college's starting position, regional economic characteristics, the specific nature of the occupation and specialty, employer capacity, and education-quality requirements**.

## **REFERENCES**

### **I. Regulatory and legal sources**

1. Resolution No. 163 of the Cabinet of Ministers of the Republic of Uzbekistan dated 29 March 2021 “On Measures to Organise Dual Education in the Vocational Education System”.

URL: <https://lex.uz/docs/5346217>

2. Decree No. PD-158 of the President of the Republic of Uzbekistan dated 16 October 2024 “On Measures to Further Improve the System of Training Qualified Personnel in Vocational Education and Introduce International Educational Programmes”.

URL: <https://lex.uz/uz/docs/7166588>

3. Decree No. PD-190 of the President of the Republic of Uzbekistan dated 23 October 2025 “On Measures to Improve Management Efficiency in the Vocational Education System”.

URL: <https://lex.uz/docs/7792559>

4. Resolution No. PR-316 of the President of the Republic of Uzbekistan dated 23 October 2025 “On Measures to Implement Reforms in the Vocational Education System”.

URL: <https://lex.uz/docs/7793420>

5. Regulation “On the Procedure for Maintaining the National Ranking of Secondary Specialised and Vocational Education Organisations and Incentivising Vocational Education Organisations”, approved by Order No. 1 of the Director of the National Quality Assurance Agency for Education under the Administration of the President of the Republic of Uzbekistan dated 18 March 2026. Registered with the Ministry of Justice of the Republic of Uzbekistan on 15 April 2026 under Registration No. 3816.

URL: <https://lex.uz/docs/-8139719#-8149928>

### **II. Data source**

6. Data on technical colleges, learner enrolment and dual-education coverage formed as of 30 May 2026 in the Prof-emis.edu.uz information system of the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan.

URL: <https://prof-emis.edu.uz>

### **III. International methodological sources**

7. OECD. Building *Future-Ready Vocational Education and Training Systems*. OECD Reviews of Vocational Education and Training. OECD Publishing, Paris, 2023.

URL: [https://www.oecd.org/en/publications/building-future-ready-vocational-education-and-training-systems\\_28551a79-en.html](https://www.oecd.org/en/publications/building-future-ready-vocational-education-and-training-systems_28551a79-en.html)

8. OECD, International Labour Organization. *Engaging Employers in Apprenticeship Opportunities: Making It Happen Locally*. OECD Publishing, Paris, 2017.

URL: <https://doi.org/10.1787/9789264266681-en>

9. International Labour Organization. *ILO Toolkit for Quality Apprenticeships. Volume I: Guide for Policy Makers*. Geneva: ILO.

URL: <https://www.ilo.org/resource/chapter-2-volume-i-guide-policy-makers>

10. International Labour Organization. *Quality Apprenticeships Recommendation, 2023 (No. 208)*. Geneva: ILO, 2023.

URL: <https://www.ilo.org/resource/other/r208-quality-apprenticeships-recommendation-2023>

11. Federal Institute for Vocational Education and Training (BIBB). *The Dual System*.

URL: <https://www.bibb.de/en/77203.php>

12. Federal Institute for Vocational Education and Training (BIBB). *Competent Bodies in Germany*.

URL: <https://www.bibb.de/en/146199.php>

13. Federal Institute for Vocational Education and Training (BIBB). *Education System and VET System*.

URL: <https://www.bibb.de/en/147678.php>

14. State Secretariat for Education, Research and Innovation (SERI). *Vocational and Professional Education and Training in Switzerland: Facts and Figures 2024*. Bern, 2024.

URL: [https://www.sbf.admin.ch/dam/sbf/en/dokumente/2024/07/bbch\\_2024.pdf.download.pdf/BBCH\\_2024\\_EN.pdf](https://www.sbf.admin.ch/dam/sbf/en/dokumente/2024/07/bbch_2024.pdf.download.pdf/BBCH_2024_EN.pdf)

15. State Secretariat for Education, Research and Innovation (SERI). *National and International Cooperation in the ERI Sector*.

URL: <https://www.sbf.admin.ch/en/national-and-international-cooperation-in-the-eri-sector>

## APPENDICES

The appendices present the complete indicator results for the technical colleges included in the analysis, grouped by ranking category and organisational status. The data are systematised by the total number of learners in each technical college, the number of learners studying in dual education, dual-education coverage and the calculated ranking score.

### Appendix 1. Indicator results for the 556 state technical colleges participating in the main ranking

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                          |                |                |                 |       |
|------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                   | Total learners | Dual education | Indicator value | Score |
| 1.                                                                                       | Yangiyer City Technical College                          | 118            | 103            | 0.873           | 8.000 |
| 2.                                                                                       | Tashkent Region Pedagogical Technical College            | 437            | 377            | 0.863           | 7.907 |
| 3.                                                                                       | Kashkadarya Pedagogical Technical College                | 731            | 564            | 0.772           | 7.071 |
| 4.                                                                                       | Karakul Pedagogical Technical College                    | 553            | 412            | 0.745           | 6.828 |
| 5.                                                                                       | Dangara District Technical College No. 3                 | 946            | 680            | 0.719           | 6.588 |
| 6.                                                                                       | Buka Pedagogical Technical College                       | 271            | 194            | 0.716           | 6.561 |
| 7.                                                                                       | Jizzakh Pedagogical Technical College                    | 785            | 513            | 0.654           | 5.989 |
| 8.                                                                                       | Fergana City Technical College No. 2                     | 733            | 461            | 0.629           | 5.764 |
| 9.                                                                                       | Andijan Pedagogical Technical College                    | 1 054          | 645            | 0.612           | 5.609 |
| 10.                                                                                      | Andijan District Technical College No. 3                 | 1 139          | 695            | 0.610           | 5.592 |
| 11.                                                                                      | Margilan Tourism and Cultural Heritage Technical College | 455            | 273            | 0.600           | 5.499 |
| 12.                                                                                      | Navbahor District Technical College No. 1                | 578            | 346            | 0.599           | 5.486 |
| 13.                                                                                      | Buzatov District Technical College No. 2                 | 256            | 152            | 0.594           | 5.442 |
| 14.                                                                                      | Kukdala District Technical College No. 2                 | 147            | 86             | 0.585           | 5.362 |
| 15.                                                                                      | Mirzachul District Technical College No. 2               | 452            | 263            | 0.582           | 5.333 |
| 16.                                                                                      | Altariq District Technical College No. 3                 | 495            | 280            | 0.566           | 5.184 |
| 17.                                                                                      | Kasbi District Technical College No. 1                   | 892            | 500            | 0.561           | 5.137 |
| 18.                                                                                      | Andijan District Technical College No. 1                 | 586            | 328            | 0.560           | 5.130 |
| 19.                                                                                      | Bogot District Technical College No. 3                   | 390            | 218            | 0.559           | 5.123 |
| 20.                                                                                      | Sharof Rashidov District Technical College No. 2         | 652            | 350            | 0.537           | 4.920 |
| 21.                                                                                      | Uzbekistan District Technical College No. 4              | 770            | 408            | 0.530           | 4.856 |
| 22.                                                                                      | Marhamat District Technical College No. 4                | 951            | 503            | 0.529           | 4.848 |
| 23.                                                                                      | Boysun District Technical College No. 3                  | 384            | 196            | 0.510           | 4.678 |
| 24.                                                                                      | Urgench District Technical College No. 3                 | 356            | 180            | 0.506           | 4.634 |
| 25.                                                                                      | Gallaorol District Technical College No. 4               | 452            | 227            | 0.502           | 4.603 |
| 26.                                                                                      | Khujaili District Technical College No. 3                | 122            | 61             | 0.500           | 4.583 |
| 27.                                                                                      | Turtkul District Technical College No. 1                 | 320            | 159            | 0.497           | 4.554 |
| 28.                                                                                      | Gallaorol District Technical College No. 3               | 421            | 206            | 0.489           | 4.485 |
| 29.                                                                                      | Surkhandarya Pedagogical Technical College               | 548            | 267            | 0.487           | 4.465 |
| 30.                                                                                      | Jomboy Agrotechnologies Technical College *              | 56             | 27             | 0.482           | 4.419 |
| 31.                                                                                      | Uzun District Technical College No. 3                    | 335            | 161            | 0.481           | 4.405 |
| 32.                                                                                      | Namangan City Technical College No. 1                    | 1569           | 744            | 0.474           | 4.346 |
| 33.                                                                                      | Karshi City Technical College No. 3                      | 587            | 277            | 0.472           | 4.325 |
| 34.                                                                                      | Muzrabot District Technical College                      | 455            | 214            | 0.470           | 4.311 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                           |                |                |                 |       |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                    | Total learners | Dual education | Indicator value | Score |
| 35.                                                                                      | Tashkent District Technical College No. 1                 | 620            | 284            | 0.458           | 4.198 |
| 36.                                                                                      | Chust District Technical College No. 2                    | 858            | 388            | 0.452           | 4.145 |
| 37.                                                                                      | Marhamat District Technical College No. 3                 | 563            | 253            | 0.449           | 4.119 |
| 38.                                                                                      | Khujaili District Technical College No. 1                 | 347            | 154            | 0.444           | 4.067 |
| 39.                                                                                      | Vobkent District Technical College No. 2                  | 682            | 301            | 0.441           | 4.045 |
| 40.                                                                                      | Mingbuloq District Technical College No. 4                | 496            | 214            | 0.431           | 3.954 |
| 41.                                                                                      | Turakurgan District Technical College No. 1               | 893            | 380            | 0.426           | 3.900 |
| 42.                                                                                      | Bukhara Tourism and Cultural Heritage Technical College   | 521            | 219            | 0.420           | 3.852 |
| 43.                                                                                      | Mirzachul District Technical College No. 1                | 535            | 224            | 0.419           | 3.837 |
| 44.                                                                                      | Khanka District Technical College No. 3                   | 410            | 169            | 0.412           | 3.778 |
| 45.                                                                                      | Khiva Agrotechnologies Technical College                  | 119            | 49             | 0.412           | 3.774 |
| 46.                                                                                      | Nishon Energy College *                                   | 66             | 27             | 0.409           | 3.749 |
| 47.                                                                                      | Navoi Digital Technologies Technical College              | 175            | 71             | 0.406           | 3.718 |
| 48.                                                                                      | Sharof Rashidov District Technical College No. 3          | 784            | 316            | 0.403           | 3.694 |
| 49.                                                                                      | Boysun District Technical College No. 1                   | 488            | 196            | 0.402           | 3.681 |
| 50.                                                                                      | Namangan District Technical College No. 1                 | 584            | 233            | 0.399           | 3.657 |
| 51.                                                                                      | Kamashi District Technical College No. 6                  | 678            | 270            | 0.398           | 3.650 |
| 52.                                                                                      | Samarkand Pedagogical Technical College                   | 345            | 137            | 0.397           | 3.639 |
| 53.                                                                                      | Bakhmal District Technical College No. 1                  | 547            | 217            | 0.397           | 3.636 |
| 54.                                                                                      | Karmana District Technical College No. 1                  | 326            | 128            | 0.393           | 3.599 |
| 55.                                                                                      | Bandikhon District Technical College No. 1                | 518            | 201            | 0.388           | 3.556 |
| 56.                                                                                      | Pakhtakor District Technical College No. 1                | 718            | 278            | 0.387           | 3.549 |
| 57.                                                                                      | Kushkuprik District Technical College No. 1               | 517            | 198            | 0.383           | 3.510 |
| 58.                                                                                      | Republic of Karakalpakstan 'Green' Technical College      | 407            | 155            | 0.381           | 3.490 |
| 59.                                                                                      | Syrdarya District Technical College                       | 466            | 177            | 0.380           | 3.481 |
| 60.                                                                                      | Zomin Tourism and Cultural Heritage Technical College     | 443            | 167            | 0.377           | 3.455 |
| 61.                                                                                      | Khorezm Pedagogical Technical College                     | 727            | 273            | 0.376           | 3.442 |
| 62.                                                                                      | Gazgan City Technical College                             | 48             | 18             | 0.375           | 3.437 |
| 63.                                                                                      | Karauzak District Technical College No. 2                 | 168            | 63             | 0.375           | 3.437 |
| 64.                                                                                      | Shayxontohur District Technical College                   | 1329           | 493            | 0.371           | 3.400 |
| 65.                                                                                      | Amudaryo District Technical College No. 3                 | 585            | 217            | 0.371           | 3.400 |
| 66.                                                                                      | Khanabad City Technical College No. 1                     | 572            | 211            | 0.369           | 3.381 |
| 67.                                                                                      | Yangikurgan Digital Technologies Technical College        | 329            | 121            | 0.368           | 3.371 |
| 68.                                                                                      | Bandikhon District Technical College No. 3                | 247            | 90             | 0.364           | 3.339 |
| 69.                                                                                      | Republic of Karakalpakstan Pedagogical Technical College  | 361            | 131            | 0.363           | 3.326 |
| 70.                                                                                      | Andijan City Technical College No. 8                      | 522            | 188            | 0.360           | 3.301 |
| 71.                                                                                      | Kegeyli District Technical College No. 3                  | 361            | 130            | 0.360           | 3.300 |
| 72.                                                                                      | Namangan City Technical College No. 2                     | 1721           | 619            | 0.360           | 3.296 |
| 73.                                                                                      | Margilan City Technical College No. 3                     | 568            | 200            | 0.352           | 3.227 |
| 74.                                                                                      | Khanka District Technical College No. 2                   | 588            | 205            | 0.349           | 3.195 |
| 75.                                                                                      | Bustonlik Tourism and Cultural Heritage Technical College | 151            | 52             | 0.344           | 3.156 |
| 76.                                                                                      | Gijduvan District Technical College No. 3                 | 571            | 196            | 0.343           | 3.146 |
| 77.                                                                                      | Chust District Technical College No. 3                    | 416            | 141            | 0.339           | 3.106 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                             |                |                |                 |       |
|------------------------------------------------------------------------------------------|---------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                      | Total learners | Dual education | Indicator value | Score |
| 78.                                                                                      | Kuva District Technical College No. 1       | 962            | 326            | 0.339           | 3.106 |
| 79.                                                                                      | Yangibozor District Technical College No. 1 | 234            | 79             | 0.338           | 3.094 |
| 80.                                                                                      | Gallaorol District Technical College No. 2  | 454            | 153            | 0.337           | 3.089 |
| 81.                                                                                      | Bukhara City Technical College No. 1        | 587            | 195            | 0.332           | 3.045 |
| 82.                                                                                      | Jarkurgan District Technical College No. 3  | 407            | 135            | 0.332           | 3.040 |
| 83.                                                                                      | Zarbdor District Technical College No. 2    | 452            | 147            | 0.325           | 2.981 |
| 84.                                                                                      | Buka District Technical College No. 2       | 672            | 216            | 0.321           | 2.946 |
| 85.                                                                                      | Bakhmal District Technical College No. 3    | 294            | 94             | 0.320           | 2.930 |
| 86.                                                                                      | Navbahor District Technical College No. 3   | 273            | 87             | 0.319           | 2.921 |
| 87.                                                                                      | Chust District Technical College No. 1      | 788            | 249            | 0.316           | 2.896 |
| 88.                                                                                      | Navoi Pedagogical Technical College         | 359            | 113            | 0.315           | 2.885 |
| 89.                                                                                      | Kibray District Technical College           | 560            | 176            | 0.314           | 2.880 |
| 90.                                                                                      | Kushkuprik District Technical College No. 4 | 679            | 212            | 0.312           | 2.862 |
| 91.                                                                                      | Shahrisabz City Technical College No. 2     | 593            | 185            | 0.312           | 2.859 |
| 92.                                                                                      | Kukdala District Technical College No. 1    | 676            | 207            | 0.306           | 2.806 |
| 93.                                                                                      | Bakhmal District Technical College No. 2    | 734            | 222            | 0.302           | 2.772 |
| 94.                                                                                      | Karshi City Technical College No. 2         | 515            | 155            | 0.301           | 2.758 |
| 95.                                                                                      | Nurota District Technical College No. 2     | 679            | 203            | 0.299           | 2.740 |
| 96.                                                                                      | Bukhara City Technical College No. 2        | 528            | 157            | 0.297           | 2.725 |
| 97.                                                                                      | Kattakurgan City Technical College No. 1    | 1108           | 329            | 0.297           | 2.721 |
| 98.                                                                                      | Jalaquduq District Technical College No. 2  | 483            | 143            | 0.296           | 2.713 |
| 99.                                                                                      | Kumkurgan District Technical College No. 3  | 383            | 112            | 0.292           | 2.680 |
| 100.                                                                                     | Zarbdor District Technical College No. 1    | 607            | 177            | 0.292           | 2.673 |
| 101.                                                                                     | Muborak District Technical College          | 1529           | 445            | 0.291           | 2.667 |
| 102.                                                                                     | Kokand City Technical College No. 1         | 634            | 184            | 0.290           | 2.660 |
| 103.                                                                                     | Shovot District Technical College No. 1     | 431            | 125            | 0.290           | 2.658 |
| 104.                                                                                     | Fergana District Technical College No. 3    | 975            | 282            | 0.289           | 2.651 |
| 105.                                                                                     | Turakurgan District Technical College No. 4 | 626            | 181            | 0.289           | 2.650 |
| 106.                                                                                     | Kushkuprik District Technical College No. 2 | 549            | 158            | 0.288           | 2.638 |
| 107.                                                                                     | Kyzyltepa District Technical College No. 1  | 565            | 162            | 0.287           | 2.628 |
| 108.                                                                                     | Uychi District Technical College No. 3      | 441            | 126            | 0.286           | 2.619 |
| 109.                                                                                     | Nukus City Technical College No. 4          | 102            | 29             | 0.284           | 2.606 |
| 110.                                                                                     | Kumkurgan District Technical College No. 2  | 664            | 188            | 0.283           | 2.595 |
| 111.                                                                                     | Kyzyltepa District Technical College No. 2  | 912            | 256            | 0.281           | 2.573 |
| 112.                                                                                     | Buzatov District Technical College          | 100            | 28             | 0.280           | 2.566 |
| 113.                                                                                     | Altinkul District Technical College No. 3   | 486            | 136            | 0.280           | 2.565 |
| 114.                                                                                     | Forish District Technical College           | 512            | 143            | 0.279           | 2.560 |
| 115.                                                                                     | Gallaorol District Technical College No. 1  | 730            | 202            | 0.277           | 2.536 |
| 116.                                                                                     | Tashkent District Technical College No. 2   | 47             | 13             | 0.277           | 2.535 |
| 117.                                                                                     | Zangiota District Technical College No. 2   | 319            | 88             | 0.276           | 2.528 |
| 118.                                                                                     | Yangibozor District Technical College No. 2 | 488            | 133            | 0.273           | 2.498 |
| 119.                                                                                     | Narpay District Technical College No. 3     | 913            | 248            | 0.272           | 2.490 |
| 120.                                                                                     | Bustonlik District Technical College No. 3  | 178            | 48             | 0.270           | 2.471 |
| 121.                                                                                     | Zangiota District Technical College No. 1   | 346            | 93             | 0.269           | 2.463 |
| 122.                                                                                     | Khanabad City Technical College No. 2       | 595            | 159            | 0.267           | 2.449 |
| 123.                                                                                     | Karshi City Technical College No. 1         | 831            | 220            | 0.265           | 2.426 |
| 124.                                                                                     | Furgat District Technical College           | 930            | 246            | 0.265           | 2.424 |
| 125.                                                                                     | Rishton District Technical College No. 1    | 1328           | 342            | 0.258           | 2.360 |
| 126.                                                                                     | Shovot District Technical College No. 2     | 405            | 104            | 0.257           | 2.353 |
| 127.                                                                                     | Shahrisabz City Technical College No. 1     | 769            | 197            | 0.256           | 2.348 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                          |                |                |                 |       |
|------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                   | Total learners | Dual education | Indicator value | Score |
| 128.                                                                                     | Syrdarya Pedagogical Technical College                   | 406            | 104            | 0.256           | 2.348 |
| 129.                                                                                     | Gijduvan District Technical College No. 2                | 1055           | 270            | 0.256           | 2.346 |
| 130.                                                                                     | Kosonsoy District Technical College No. 3                | 463            | 118            | 0.255           | 2.336 |
| 131.                                                                                     | Margilan City Technical College No. 4                    | 754            | 192            | 0.255           | 2.334 |
| 132.                                                                                     | Pakhtakor District Technical College No. 2               | 398            | 101            | 0.254           | 2.326 |
| 133.                                                                                     | Tashkent Pedagogical Technical College                   | 465            | 118            | 0.254           | 2.326 |
| 134.                                                                                     | Namangan City Technical College No. 4                    | 262            | 66             | 0.252           | 2.309 |
| 135.                                                                                     | Karavulbazar District Technical College                  | 879            | 220            | 0.250           | 2.294 |
| 136.                                                                                     | Bandikhon District Technical College No. 2               | 330            | 82             | 0.248           | 2.277 |
| 137.                                                                                     | Saikhunabad District Technical College No. 1             | 442            | 108            | 0.244           | 2.239 |
| 138.                                                                                     | Kitob District Technical College No. 1                   | 498            | 121            | 0.243           | 2.227 |
| 139.                                                                                     | Gijduvan District Technical College No. 1                | 826            | 198            | 0.240           | 2.197 |
| 140.                                                                                     | Turakurgan District Technical College No. 2              | 691            | 165            | 0.239           | 2.188 |
| 141.                                                                                     | Okdaryo District Technical College No. 1                 | 763            | 181            | 0.237           | 2.174 |
| 142.                                                                                     | Zomin District Technical College No. 1                   | 912            | 216            | 0.237           | 2.171 |
| 143.                                                                                     | Tashkent Digital Economy and Services Technical College  | 423            | 100            | 0.236           | 2.167 |
| 144.                                                                                     | Pop District Technical College No. 1                     | 919            | 217            | 0.236           | 2.164 |
| 145.                                                                                     | Pakhtaabad District Technical College No. 2              | 574            | 135            | 0.235           | 2.156 |
| 146.                                                                                     | Samarkand City Technical College No. 6                   | 427            | 99             | 0.232           | 2.125 |
| 147.                                                                                     | Andijan District Technical College No. 2                 | 768            | 173            | 0.225           | 2.065 |
| 148.                                                                                     | Kasbi District Technical College No. 5                   | 495            | 111            | 0.224           | 2.055 |
| 149.                                                                                     | Chinaz District Technical College No. 1                  | 446            | 100            | 0.224           | 2.055 |
| 150.                                                                                     | Kosonsoy District Technical College No. 4                | 624            | 138            | 0.221           | 2.027 |
| 151.                                                                                     | Jomboy District Technical College No. 2                  | 595            | 131            | 0.220           | 2.018 |
| 152.                                                                                     | Urta Chirchik District Technical College No. 2           | 665            | 146            | 0.220           | 2.012 |
| 153.                                                                                     | Urgench District Technical College No. 2                 | 552            | 121            | 0.219           | 2.009 |
| 154.                                                                                     | Altinkul District Technical College No. 2                | 685            | 150            | 0.219           | 2.007 |
| 155.                                                                                     | Nurota District Technical College No. 1                  | 224            | 49             | 0.219           | 2.005 |
| 156.                                                                                     | Chinaz District Technical College No. 2                  | 275            | 60             | 0.218           | 2.000 |
| 157.                                                                                     | Kuvasoy City Technical College                           | 300            | 65             | 0.217           | 1.986 |
| 158.                                                                                     | Khiva Tourism and Cultural Heritage Technical College    | 370            | 80             | 0.216           | 1.982 |
| 159.                                                                                     | Kokand City Technical College No. 3                      | 276            | 59             | 0.214           | 1.959 |
| 160.                                                                                     | Urta Chirchik District Technical College No. 3           | 754            | 160            | 0.212           | 1.945 |
| 161.                                                                                     | Mingbuloq District Technical College No. 3               | 269            | 57             | 0.212           | 1.942 |
| 162.                                                                                     | Izboskan District Technical College No. 1                | 624            | 132            | 0.212           | 1.939 |
| 163.                                                                                     | Beruniy District Technical College No. 3                 | 637            | 132            | 0.207           | 1.899 |
| 164.                                                                                     | Dangara District Technical College No. 1                 | 1 505          | 310            | 0.206           | 1.888 |
| 165.                                                                                     | Fergana District Technical College No. 2                 | 687            | 141            | 0.205           | 1.881 |
| 166.                                                                                     | Chiroqchi District Technical College No. 2               | 1 170          | 240            | 0.205           | 1.880 |
| 167.                                                                                     | Payariq District Technical College No. 1                 | 673            | 138            | 0.205           | 1.879 |
| 168.                                                                                     | Guzar District Technical College No. 4                   | 402            | 82             | 0.204           | 1.869 |
| 169.                                                                                     | Bogot District Technical College No. 1                   | 459            | 93             | 0.203           | 1.857 |
| 170.                                                                                     | Arnasoy District Technical College                       | 292            | 59             | 0.202           | 1.852 |
| 171.                                                                                     | Tashkent Tourism and Cultural Heritage Technical College | 447            | 90             | 0.201           | 1.845 |
| 172.                                                                                     | Yangiariq District Technical College No. 3               | 499            | 100            | 0.200           | 1.837 |
| 173.                                                                                     | Piskent District Technical College No. 1                 | 413            | 82             | 0.199           | 1.820 |
| 174.                                                                                     | Shahrikhan District Technical College No. 3              | 585            | 116            | 0.198           | 1.817 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                           |                |                |                 |       |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                    | Total learners | Dual education | Indicator value | Score |
| 175.                                                                                     | Almalyk City Technical College No. 2                      | 726            | 142            | 0.196           | 1.793 |
| 176.                                                                                     | Kitob District Technical College No. 2                    | 727            | 142            | 0.195           | 1.790 |
| 177.                                                                                     | Bulakbashi District Technical College No. 2               | 674            | 131            | 0.194           | 1.781 |
| 178.                                                                                     | Baghdad District Technical College No. 1                  | 1 091          | 211            | 0.193           | 1.773 |
| 179.                                                                                     | Asaka District Technical College No. 3                    | 880            | 169            | 0.192           | 1.760 |
| 180.                                                                                     | Chortoq District Technical College No. 2                  | 506            | 96             | 0.190           | 1.739 |
| 181.                                                                                     | Bulakbashi District Technical College No. 1               | 936            | 176            | 0.188           | 1.723 |
| 182.                                                                                     | Kurgantepa District Technical College No. 1               | 734            | 138            | 0.188           | 1.723 |
| 183.                                                                                     | Ohangaron District Technical College No. 2                | 542            | 101            | 0.186           | 1.708 |
| 184.                                                                                     | Muynak District Technical College                         | 296            | 55             | 0.186           | 1.703 |
| 185.                                                                                     | Hazorasp District Technical College No. 2                 | 666            | 123            | 0.185           | 1.693 |
| 186.                                                                                     | Margilan City Technical College No. 2                     | 1028           | 188            | 0.183           | 1.676 |
| 187.                                                                                     | Uchkurgan District Technical College No. 3                | 570            | 104            | 0.182           | 1.672 |
| 188.                                                                                     | Karshi District Technical College No. 4                   | 423            | 77             | 0.182           | 1.668 |
| 189.                                                                                     | Yozyovon District Technical College No. 2                 | 783            | 142            | 0.181           | 1.662 |
| 190.                                                                                     | Kurgantepa District Technical College No. 2               | 927            | 168            | 0.181           | 1.661 |
| 191.                                                                                     | Okoltin District Technical College No. 3                  | 465            | 84             | 0.181           | 1.656 |
| 192.                                                                                     | Urgench City Technical College No. 2                      | 489            | 88             | 0.180           | 1.649 |
| 193.                                                                                     | Khavos District Technical College No. 1                   | 467            | 84             | 0.180           | 1.649 |
| 194.                                                                                     | Toshlok District Technical College No. 2                  | 989            | 177            | 0.179           | 1.640 |
| 195.                                                                                     | Khanka District Technical College No. 1                   | 504            | 90             | 0.179           | 1.637 |
| 196.                                                                                     | Sokh District Technical College                           | 483            | 86             | 0.178           | 1.632 |
| 197.                                                                                     | Yozyovon District Technical College No. 1                 | 580            | 102            | 0.176           | 1.612 |
| 198.                                                                                     | Kasbi District Technical College No. 4                    | 467            | 82             | 0.176           | 1.609 |
| 199.                                                                                     | Ulugnar District Technical College                        | 564            | 99             | 0.176           | 1.609 |
| 200.                                                                                     | Pop District Technical College No. 2                      | 687            | 120            | 0.175           | 1.601 |
| 201.                                                                                     | Kattakurgan District Technical College No. 3              | 640            | 111            | 0.173           | 1.590 |
| 202.                                                                                     | Uychi District Technical College No. 2                    | 696            | 120            | 0.172           | 1.580 |
| 203.                                                                                     | Khiva District Technical College                          | 470            | 81             | 0.172           | 1.580 |
| 204.                                                                                     | Pakhtaabad District Technical College No. 3               | 414            | 71             | 0.171           | 1.572 |
| 205.                                                                                     | Parkent District Technical College                        | 582            | 99             | 0.170           | 1.559 |
| 206.                                                                                     | Izboskan District Technical College No. 2                 | 901            | 153            | 0.170           | 1.556 |
| 207.                                                                                     | Gulistan District Technical College No. 2                 | 342            | 58             | 0.170           | 1.554 |
| 208.                                                                                     | Altariq District Technical College No. 2                  | 815            | 138            | 0.169           | 1.552 |
| 209.                                                                                     | Akkurgan District Technical College No. 2                 | 332            | 56             | 0.169           | 1.546 |
| 210.                                                                                     | Kokand City Technical College No. 5                       | 872            | 147            | 0.169           | 1.545 |
| 211.                                                                                     | Fergana District Technical College No. 1                  | 584            | 98             | 0.168           | 1.538 |
| 212.                                                                                     | Yangiyul City Technical College No. 2                     | 559            | 92             | 0.165           | 1.508 |
| 213.                                                                                     | Yangiyul District Technical College No. 3                 | 487            | 80             | 0.164           | 1.506 |
| 214.                                                                                     | Yuqori Chirchik District Technical College                | 632            | 103            | 0.163           | 1.494 |
| 215.                                                                                     | Samarkand Tourism and Cultural Heritage Technical College | 615            | 100            | 0.163           | 1.490 |
| 216.                                                                                     | Toshlok District Technical College No. 3                  | 536            | 87             | 0.162           | 1.488 |
| 217.                                                                                     | Shahrisabz District Technical College No. 2               | 469            | 76             | 0.162           | 1.485 |
| 218.                                                                                     | Boysun District Technical College No. 2                   | 408            | 66             | 0.162           | 1.483 |
| 219.                                                                                     | Buvayda District Technical College No. 2                  | 775            | 125            | 0.161           | 1.478 |
| 220.                                                                                     | Jomboy District Technical College No. 1                   | 606            | 97             | 0.160           | 1.467 |
| 221.                                                                                     | Asaka District Technical College No. 2                    | 842            | 133            | 0.158           | 1.448 |
| 222.                                                                                     | Buvayda District Technical College No. 1                  | 1 011          | 158            | 0.156           | 1.432 |
| 223.                                                                                     | Kamashi District Technical College No. 3                  | 923            | 144            | 0.156           | 1.430 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                            |                |                |                 |       |
|------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                     | Total learners | Dual education | Indicator value | Score |
| 224.                                                                                     | Andijan City Technical College No. 2                       | 1 037          | 160            | 0.154           | 1.414 |
| 225.                                                                                     | Uchquduq District Technical College No. 2                  | 624            | 96             | 0.154           | 1.410 |
| 226.                                                                                     | Samarkand Architecture and Construction Technical College  | 326            | 50             | 0.153           | 1.406 |
| 227.                                                                                     | Baghdad District Technical College No. 2                   | 2 821          | 432            | 0.153           | 1.404 |
| 228.                                                                                     | Shurchi District Technical College No. 3                   | 572            | 87             | 0.152           | 1.394 |
| 229.                                                                                     | Urgench District Technical College No. 1                   | 572            | 87             | 0.152           | 1.394 |
| 230.                                                                                     | Pastdargom District Technical College No. 3                | 776            | 118            | 0.152           | 1.394 |
| 231.                                                                                     | Urgut District Technical College No. 3                     | 602            | 91             | 0.151           | 1.385 |
| 232.                                                                                     | Margilan City Technical College No. 1                      | 1039           | 156            | 0.150           | 1.376 |
| 233.                                                                                     | Khojaabad District Technical College                       | 607            | 91             | 0.150           | 1.374 |
| 234.                                                                                     | Kokand Digital Technologies Technical College              | 248            | 37             | 0.149           | 1.367 |
| 235.                                                                                     | Tashkent District Technical College No. 3                  | 344            | 51             | 0.148           | 1.359 |
| 236.                                                                                     | Urta Chirchik District Technical College No. 1             | 577            | 85             | 0.147           | 1.350 |
| 237.                                                                                     | Hazorasp District Technical College No. 1                  | 761            | 112            | 0.147           | 1.349 |
| 238.                                                                                     | Dehqonobod District Technical College No. 1                | 673            | 99             | 0.147           | 1.348 |
| 239.                                                                                     | Uchquduq District Technical College No. 1                  | 327            | 47             | 0.144           | 1.317 |
| 240.                                                                                     | Vobkent District Technical College No. 1                   | 688            | 98             | 0.142           | 1.305 |
| 241.                                                                                     | Chilonzor District Technical College No. 2                 | 874            | 124            | 0.142           | 1.300 |
| 242.                                                                                     | Marhamat District Technical College No. 1                  | 633            | 89             | 0.141           | 1.289 |
| 243.                                                                                     | Kungrat District Technical College No. 2                   | 349            | 49             | 0.140           | 1.287 |
| 244.                                                                                     | Yangiyul District Technical College No. 1                  | 562            | 78             | 0.139           | 1.272 |
| 245.                                                                                     | Karakul District Technical College No. 1                   | 440            | 61             | 0.139           | 1.271 |
| 246.                                                                                     | Chortoq District Technical College No. 1                   | 413            | 57             | 0.138           | 1.265 |
| 247.                                                                                     | Bustonlik District Technical College No. 2                 | 523            | 72             | 0.138           | 1.262 |
| 248.                                                                                     | Kamashi District Technical College No. 5                   | 662            | 90             | 0.136           | 1.246 |
| 249.                                                                                     | Pop District Technical College No. 3                       | 860            | 116            | 0.135           | 1.236 |
| 250.                                                                                     | Tuprokkala District Technical College No. 1                | 668            | 90             | 0.135           | 1.235 |
| 251.                                                                                     | Karakul District Technical College No. 2                   | 468            | 63             | 0.135           | 1.234 |
| 252.                                                                                     | Ohangaron City Technical College                           | 1104           | 148            | 0.134           | 1.229 |
| 253.                                                                                     | Yangiyul City Technical College No. 1                      | 495            | 66             | 0.133           | 1.222 |
| 254.                                                                                     | Yangikurgan District Technical College No. 2               | 625            | 83             | 0.133           | 1.217 |
| 255.                                                                                     | Yangiyul District Technical College No. 2                  | 709            | 94             | 0.133           | 1.215 |
| 256.                                                                                     | Uzbekistan District Technical College No. 2                | 830            | 110            | 0.133           | 1.215 |
| 257.                                                                                     | Konlikul District Technical College                        | 485            | 64             | 0.132           | 1.209 |
| 258.                                                                                     | Shumanay District Technical College                        | 493            | 65             | 0.132           | 1.208 |
| 259.                                                                                     | Khujaili District Technical College No. 2                  | 342            | 45             | 0.132           | 1.206 |
| 260.                                                                                     | Turtkul District Technical College No. 2                   | 853            | 112            | 0.131           | 1.203 |
| 261.                                                                                     | Shahrisabz Tourism and Cultural Heritage Technical College | 443            | 58             | 0.131           | 1.200 |
| 262.                                                                                     | Sherobod District Technical College No. 2                  | 643            | 84             | 0.131           | 1.197 |
| 263.                                                                                     | Kushtepa District Technical College No. 2                  | 544            | 71             | 0.131           | 1.196 |
| 264.                                                                                     | Khavos District Technical College No. 2                    | 492            | 64             | 0.130           | 1.192 |
| 265.                                                                                     | Samarkand District Technical College                       | 1157           | 150            | 0.130           | 1.188 |
| 266.                                                                                     | Amudaryo District Technical College No. 1                  | 465            | 60             | 0.129           | 1.183 |
| 267.                                                                                     | Koson District Technical College No. 1                     | 1104           | 141            | 0.128           | 1.171 |
| 268.                                                                                     | Baliqchi District Technical College No. 2                  | 672            | 85             | 0.126           | 1.159 |
| 269.                                                                                     | Namangan District Technical College No. 5                  | 546            | 69             | 0.126           | 1.158 |
| 270.                                                                                     | Andijan City Technical College No. 1                       | 697            | 88             | 0.126           | 1.157 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                         |                |                |                 |       |
|------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                  | Total learners | Dual education | Indicator value | Score |
| 271.                                                                                     | Tashkent City 'Green' Technical College                 | 283            | 35             | 0.124           | 1.133 |
| 272.                                                                                     | Pastdargom District Technical College No. 2             | 679            | 83             | 0.122           | 1.120 |
| 273.                                                                                     | Sergeli District Technical College No. 1                | 680            | 83             | 0.122           | 1.119 |
| 274.                                                                                     | Kosonsoy District Technical College No. 2               | 912            | 110            | 0.121           | 1.105 |
| 275.                                                                                     | Sardoba District Technical College No. 1                | 569            | 68             | 0.120           | 1.095 |
| 276.                                                                                     | Sharof Rashidov District Technical College No. 1        | 878            | 104            | 0.118           | 1.086 |
| 277.                                                                                     | Kogon District Technical College                        | 701            | 83             | 0.118           | 1.085 |
| 278.                                                                                     | Dangara District Technical College No. 2                | 982            | 116            | 0.118           | 1.083 |
| 279.                                                                                     | Ellikkala District Technical College No. 1              | 647            | 76             | 0.117           | 1.077 |
| 280.                                                                                     | Kokand City Technical College No. 2                     | 804            | 94             | 0.117           | 1.072 |
| 281.                                                                                     | Asaka District Technical College No. 1                  | 886            | 102            | 0.115           | 1.055 |
| 282.                                                                                     | Bulungur District Technical College No. 2               | 833            | 95             | 0.114           | 1.045 |
| 283.                                                                                     | Yangiariq District Technical College No. 1              | 500            | 57             | 0.114           | 1.045 |
| 284.                                                                                     | Uzbekistan District Technical College No. 1             | 1012           | 115            | 0.114           | 1.041 |
| 285.                                                                                     | Kumkurgan District Technical College No. 1              | 518            | 58             | 0.112           | 1.026 |
| 286.                                                                                     | Muzrabot District Technical College No. 1               | 582            | 65             | 0.112           | 1.024 |
| 287.                                                                                     | Altinkul District Technical College No. 1               | 703            | 77             | 0.110           | 1.004 |
| 288.                                                                                     | Urgut District Technical College No. 4                  | 762            | 83             | 0.109           | 0.998 |
| 289.                                                                                     | Tashkent Tourism and Hotel Management Technical College | 660            | 71             | 0.108           | 0.986 |
| 290.                                                                                     | Oltinsoy District Technical College No. 1               | 733            | 78             | 0.106           | 0.975 |
| 291.                                                                                     | Kattakurgan District Technical College No. 2            | 559            | 59             | 0.106           | 0.967 |
| 292.                                                                                     | Pakhtachi District Technical College No. 2              | 592            | 62             | 0.105           | 0.960 |
| 293.                                                                                     | Toyloq District Technical College No. 1                 | 717            | 75             | 0.105           | 0.959 |
| 294.                                                                                     | Beshariq District Technical College No. 1               | 1 152          | 119            | 0.103           | 0.947 |
| 295.                                                                                     | Vobkent District Technical College No. 3                | 365            | 37             | 0.101           | 0.929 |
| 296.                                                                                     | Bustonlik District Technical College No. 1              | 475            | 48             | 0.101           | 0.926 |
| 297.                                                                                     | Toshlok District Technical College No. 1                | 864            | 87             | 0.101           | 0.923 |
| 298.                                                                                     | Bekabad District Technical College No. 1                | 437            | 44             | 0.101           | 0.923 |
| 299.                                                                                     | Norin District Technical College No. 1                  | 966            | 97             | 0.100           | 0.920 |
| 300.                                                                                     | Boyovut District Technical College No. 1                | 470            | 47             | 0.100           | 0.917 |
| 301.                                                                                     | Namangan District Technical College No. 2               | 816            | 81             | 0.099           | 0.910 |
| 302.                                                                                     | Shahrikhan District Technical College No. 1             | 716            | 71             | 0.099           | 0.909 |
| 303.                                                                                     | Kasbi District Technical College No. 2                  | 801            | 79             | 0.099           | 0.904 |
| 304.                                                                                     | Shofirkon Digital Technologies Technical College        | 335            | 33             | 0.099           | 0.903 |
| 305.                                                                                     | Saikhunabad District Technical College No. 2            | 572            | 56             | 0.098           | 0.897 |
| 306.                                                                                     | Beruniy District Technical College No. 1                | 813            | 79             | 0.097           | 0.891 |
| 307.                                                                                     | Republican Television and Radio Technical College       | 227            | 22             | 0.097           | 0.888 |
| 308.                                                                                     | Romitan District Technical College No. 1                | 730            | 70             | 0.096           | 0.879 |
| 309.                                                                                     | Karshi District Technical College No. 1                 | 721            | 69             | 0.096           | 0.877 |
| 310.                                                                                     | Andijan City Technical College No. 5                    | 895            | 85             | 0.095           | 0.870 |
| 311.                                                                                     | Jondor District Technical College No. 1                 | 1030           | 97             | 0.094           | 0.863 |
| 312.                                                                                     | Narpay District Technical College No. 2                 | 1179           | 111            | 0.094           | 0.863 |
| 313.                                                                                     | Turtkul District Technical College No. 3                | 632            | 59             | 0.093           | 0.856 |
| 314.                                                                                     | Uchkurgan District Technical College No. 4              | 421            | 39             | 0.093           | 0.849 |
| 315.                                                                                     | Narpay District Technical College No. 1                 | 1212           | 112            | 0.092           | 0.847 |
| 316.                                                                                     | Denov District Technical College No. 6                  | 487            | 45             | 0.092           | 0.847 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                         |                |                |                 |       |
|------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                  | Total learners | Dual education | Indicator value | Score |
| 317.                                                                                     | Khiva City Technical College                            | 539            | 49             | 0.091           | 0.833 |
| 318.                                                                                     | Shofirkon District Technical College No. 2              | 631            | 57             | 0.090           | 0.828 |
| 319.                                                                                     | Angren City Technical College No. 1                     | 842            | 76             | 0.090           | 0.827 |
| 320.                                                                                     | Andijan City Technical College No. 4                    | 1 259          | 113            | 0.090           | 0.823 |
| 321.                                                                                     | Nishon District Technical College                       | 887            | 79             | 0.089           | 0.816 |
| 322.                                                                                     | Shahrikhan District Technical College No. 2             | 924            | 82             | 0.089           | 0.813 |
| 323.                                                                                     | Norin District Technical College No. 2                  | 1229           | 109            | 0.089           | 0.813 |
| 324.                                                                                     | Marhamat District Technical College No. 2               | 748            | 66             | 0.088           | 0.809 |
| 325.                                                                                     | Denov District Technical College No. 4                  | 810            | 71             | 0.088           | 0.803 |
| 326.                                                                                     | Angren City Technical College No. 2                     | 1 410          | 122            | 0.087           | 0.793 |
| 327.                                                                                     | Romitan District Technical College No. 2                | 637            | 55             | 0.086           | 0.791 |
| 328.                                                                                     | Ishtikhan District Technical College No. 1              | 996            | 85             | 0.085           | 0.782 |
| 329.                                                                                     | Karmana District Technical College No. 2                | 598            | 51             | 0.085           | 0.782 |
| 330.                                                                                     | Oltinsoy District Technical College No. 2               | 506            | 43             | 0.085           | 0.779 |
| 331.                                                                                     | Urgut District Technical College No. 1                  | 2 141          | 181            | 0.085           | 0.775 |
| 332.                                                                                     | Guzar District Technical College No. 1                  | 1365           | 114            | 0.084           | 0.765 |
| 333.                                                                                     | Karauzak District Technical College No. 1               | 457            | 38             | 0.083           | 0.762 |
| 334.                                                                                     | Uchkuprik District Technical College No. 1              | 1 586          | 130            | 0.082           | 0.751 |
| 335.                                                                                     | Nukus Digital Technologies Technical College            | 232            | 19             | 0.082           | 0.751 |
| 336.                                                                                     | Yakkabog District Technical College No. 1               | 941            | 76             | 0.081           | 0.740 |
| 337.                                                                                     | Bustan District Technical College                       | 671            | 54             | 0.080           | 0.738 |
| 338.                                                                                     | Kamashi District Technical College No. 2                | 901            | 72             | 0.080           | 0.732 |
| 339.                                                                                     | Kyzyltepa District Technical College No. 3              | 314            | 25             | 0.080           | 0.730 |
| 340.                                                                                     | Pastdargom District Technical College No. 4             | 684            | 54             | 0.079           | 0.724 |
| 341.                                                                                     | Chilonzor District Technical College No. 3              | 623            | 49             | 0.079           | 0.721 |
| 342.                                                                                     | Romitan District Technical College No. 3                | 567            | 44             | 0.078           | 0.711 |
| 343.                                                                                     | Beruniy District Technical College No. 2                | 777            | 60             | 0.077           | 0.708 |
| 344.                                                                                     | Sherobod District Technical College No. 1               | 639            | 49             | 0.077           | 0.703 |
| 345.                                                                                     | Urgench Digital Technologies Technical College          | 393            | 30             | 0.076           | 0.700 |
| 346.                                                                                     | Kitob District Technical College No. 3                  | 555            | 42             | 0.076           | 0.694 |
| 347.                                                                                     | Kokand City Technical College No. 4                     | 1285           | 97             | 0.075           | 0.692 |
| 348.                                                                                     | Jarkurgan District Technical College No. 1              | 766            | 57             | 0.074           | 0.682 |
| 349.                                                                                     | Akkurgan District Technical College No. 1               | 558            | 41             | 0.073           | 0.673 |
| 350.                                                                                     | Uchkuprik District Technical College No. 2              | 1 181          | 86             | 0.073           | 0.667 |
| 351.                                                                                     | Yangikurgan District Technical College No. 1            | 509            | 37             | 0.073           | 0.666 |
| 352.                                                                                     | Almalyk City Technical College No. 1                    | 1131           | 81             | 0.072           | 0.656 |
| 353.                                                                                     | Jalaquduq District Technical College No. 1              | 546            | 39             | 0.071           | 0.655 |
| 354.                                                                                     | Mirishkor District Technical College No. 1              | 631            | 45             | 0.071           | 0.654 |
| 355.                                                                                     | Andijan Tourism and Cultural Heritage Technical College | 367            | 26             | 0.071           | 0.649 |
| 356.                                                                                     | Angren City Technical College No. 4                     | 598            | 42             | 0.070           | 0.644 |
| 357.                                                                                     | Pakhtachi District Technical College No. 1              | 655            | 46             | 0.070           | 0.644 |
| 358.                                                                                     | Andijan Transport Technical College                     | 861            | 59             | 0.069           | 0.628 |
| 359.                                                                                     | Shahrisabz District Technical College No. 1             | 950            | 63             | 0.066           | 0.608 |
| 360.                                                                                     | Kattakurgan District Technical College No. 1            | 788            | 52             | 0.066           | 0.605 |
| 361.                                                                                     | Angor District Technical College No. 4                  | 288            | 19             | 0.066           | 0.605 |
| 362.                                                                                     | Yakkabog District Technical College No. 2               | 933            | 61             | 0.065           | 0.599 |
| 363.                                                                                     | Uchkurgan District Technical College No. 1              | 582            | 38             | 0.065           | 0.598 |
| 364.                                                                                     | Chiroqchi District Technical College No. 1              | 1 019          | 66             | 0.065           | 0.594 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                                           |                |                |                 |       |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                                    | Total learners | Dual education | Indicator value | Score |
| 365.                                                                                     | Amudaryo District Technical College No. 2                                 | 742            | 48             | 0.065           | 0.593 |
| 366.                                                                                     | Uychi District Technical College No. 4                                    | 472            | 30             | 0.064           | 0.583 |
| 367.                                                                                     | Almalyk City Technical College No. 3                                      | 710            | 45             | 0.063           | 0.581 |
| 368.                                                                                     | Republican Variety and Circus Technical College named after Karim Zaripov | 158            | 10             | 0.063           | 0.580 |
| 369.                                                                                     | Mirzaobod District Technical College                                      | 446            | 28             | 0.063           | 0.575 |
| 370.                                                                                     | Peshku District Technical College No. 2                                   | 432            | 27             | 0.063           | 0.573 |
| 371.                                                                                     | Kegeyli District Technical College No. 1                                  | 421            | 26             | 0.062           | 0.566 |
| 372.                                                                                     | Urgut District Technical College No. 5                                    | 521            | 32             | 0.061           | 0.563 |
| 373.                                                                                     | Kogon City Technical College                                              | 280            | 16             | 0.057           | 0.524 |
| 374.                                                                                     | Nurobod District Technical College No. 1                                  | 455            | 26             | 0.057           | 0.524 |
| 375.                                                                                     | Kuyi Chirchik District Technical College No. 2                            | 440            | 25             | 0.057           | 0.521 |
| 376.                                                                                     | Mingbuloq District Technical College No. 2                                | 265            | 15             | 0.057           | 0.519 |
| 377.                                                                                     | Qiziriq District Technical College No. 1                                  | 534            | 30             | 0.056           | 0.515 |
| 378.                                                                                     | Nukus District Technical College No. 1                                    | 323            | 18             | 0.056           | 0.511 |
| 379.                                                                                     | Jarkurgan District Technical College No. 2                                | 723            | 40             | 0.055           | 0.507 |
| 380.                                                                                     | Takhtakupir District Technical College                                    | 218            | 12             | 0.055           | 0.504 |
| 381.                                                                                     | Beshariq District Technical College No. 2                                 | 1 474          | 80             | 0.054           | 0.497 |
| 382.                                                                                     | Yangiariq District Technical College No. 2                                | 444            | 24             | 0.054           | 0.495 |
| 383.                                                                                     | Mirishkor District Technical College No. 2                                | 593            | 32             | 0.054           | 0.495 |
| 384.                                                                                     | Kosonsoy Public Health Technical College named after Abu Ali ibn Sina     | 817            | 44             | 0.054           | 0.494 |
| 385.                                                                                     | Kosonsoy District Technical College No. 1                                 | 1073           | 57             | 0.053           | 0.487 |
| 386.                                                                                     | Chimboy District Technical College                                        | 776            | 40             | 0.052           | 0.472 |
| 387.                                                                                     | Toyloq District Technical College No. 2                                   | 1 054          | 54             | 0.051           | 0.470 |
| 388.                                                                                     | Shurchi District Technical College No. 1                                  | 577            | 29             | 0.050           | 0.461 |
| 389.                                                                                     | Bogot District Technical College No. 2                                    | 539            | 27             | 0.050           | 0.459 |
| 390.                                                                                     | Payariq District Technical College No. 3                                  | 520            | 26             | 0.050           | 0.458 |
| 391.                                                                                     | Peshku District Technical College No. 1                                   | 725            | 36             | 0.050           | 0.455 |
| 392.                                                                                     | Fergana City Technical College No. 1                                      | 1172           | 57             | 0.049           | 0.446 |
| 393.                                                                                     | Payariq District Technical College No. 2                                  | 972            | 47             | 0.048           | 0.443 |
| 394.                                                                                     | Bulungur District Technical College No. 1                                 | 921            | 44             | 0.048           | 0.438 |
| 395.                                                                                     | Piskent District Technical College No. 2                                  | 319            | 15             | 0.047           | 0.431 |
| 396.                                                                                     | Zarafshan City Technical College No. 1                                    | 782            | 36             | 0.046           | 0.422 |
| 397.                                                                                     | Nurobod District Technical College No. 2                                  | 512            | 23             | 0.045           | 0.412 |
| 398.                                                                                     | Zarafshan City Technical College No. 2                                    | 557            | 25             | 0.045           | 0.411 |
| 399.                                                                                     | Buka District Technical College No. 1                                     | 743            | 33             | 0.044           | 0.407 |
| 400.                                                                                     | Jondor District Technical College No. 2                                   | 681            | 30             | 0.044           | 0.404 |
| 401.                                                                                     | Tashkent Publishing and Printing Technical College                        | 392            | 17             | 0.043           | 0.397 |
| 402.                                                                                     | Termiz City Technical College No. 1                                       | 600            | 26             | 0.043           | 0.397 |
| 403.                                                                                     | Nukus City Technical College No. 2                                        | 511            | 22             | 0.043           | 0.395 |
| 404.                                                                                     | Kegeyli District Technical College No. 2                                  | 519            | 22             | 0.042           | 0.388 |
| 405.                                                                                     | Tashkent Economics and Tax Technical College                              | 618            | 26             | 0.042           | 0.386 |
| 406.                                                                                     | Sariosiyo District Technical College No. 1                                | 670            | 28             | 0.042           | 0.383 |
| 407.                                                                                     | Shirin Energy Technical College                                           | 628            | 26             | 0.041           | 0.379 |
| 408.                                                                                     | Pakhtaabad District Technical College No. 1                               | 623            | 25             | 0.040           | 0.368 |
| 409.                                                                                     | Gulistan District Technical College No. 1                                 | 649            | 26             | 0.040           | 0.367 |
| 410.                                                                                     | Gurlan District Technical College No. 1                                   | 477            | 19             | 0.040           | 0.365 |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                                               |                |                |                 |       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                                        | Total learners | Dual education | Indicator value | Score |
| 411.                                                                                     | Khatirchi District Technical College No. 1                                    | 707            | 28             | 0.040           | 0.363 |
| 412.                                                                                     | Olot District Technical College                                               | 765            | 30             | 0.039           | 0.359 |
| 413.                                                                                     | Angren City Technical College No. 3                                           | 416            | 16             | 0.038           | 0.353 |
| 414.                                                                                     | Koshrabota District Technical College No. 1                                   | 720            | 27             | 0.038           | 0.344 |
| 415.                                                                                     | Uzun District Technical College No. 2                                         | 685            | 25             | 0.036           | 0.334 |
| 416.                                                                                     | Ishtikhan District Technical College No. 2                                    | 1793           | 60             | 0.033           | 0.307 |
| 417.                                                                                     | Kungrat District Technical College No. 1                                      | 646            | 20             | 0.031           | 0.284 |
| 418.                                                                                     | Denov District Technical College No. 2                                        | 976            | 30             | 0.031           | 0.282 |
| 419.                                                                                     | Sergeli Public Health Technical College named after Abu Ali ibn Sina          | 1153           | 35             | 0.030           | 0.278 |
| 420.                                                                                     | Koshrabota District Technical College No. 2                                   | 1067           | 32             | 0.030           | 0.275 |
| 421.                                                                                     | Rishton District Technical College No. 2                                      | 834            | 25             | 0.030           | 0.275 |
| 422.                                                                                     | Konimex District Technical College                                            | 570            | 17             | 0.030           | 0.273 |
| 423.                                                                                     | Shofirkon District Technical College No. 1                                    | 1766           | 52             | 0.029           | 0.270 |
| 424.                                                                                     | Pastdargom District Technical College No. 1                                   | 1033           | 30             | 0.029           | 0.266 |
| 425.                                                                                     | Mingbuloq District Technical College No. 1                                    | 565            | 16             | 0.028           | 0.260 |
| 426.                                                                                     | Denov District Technical College No. 1                                        | 819            | 22             | 0.027           | 0.246 |
| 427.                                                                                     | Angor District Technical College No. 1                                        | 971            | 26             | 0.027           | 0.245 |
| 428.                                                                                     | Denov District Technical College No. 3                                        | 635            | 16             | 0.025           | 0.231 |
| 429.                                                                                     | Okdaryo District Technical College No. 2                                      | 618            | 15             | 0.024           | 0.222 |
| 430.                                                                                     | Bekabad City Technical College No. 1                                          | 1 523          | 36             | 0.024           | 0.217 |
| 431.                                                                                     | Taxiatosh District Technical College No. 1                                    | 566            | 13             | 0.023           | 0.211 |
| 432.                                                                                     | Sariosiyo District Technical College No. 2                                    | 783            | 15             | 0.019           | 0.176 |
| 433.                                                                                     | Koson District Technical College No. 4                                        | 838            | 16             | 0.019           | 0.175 |
| 434.                                                                                     | Andijan Public Health Technical College named after Abu Ali ibn Sina          | 1 958          | 30             | 0.015           | 0.140 |
| 435.                                                                                     | Tashkent Transport Technical College                                          | 2 830          | 39             | 0.014           | 0.126 |
| 436.                                                                                     | Margilan Public Health Technical College named after Abu Ali ibn Sina No. 1   | 2 178          | 0              | 0               | 0     |
| 437.                                                                                     | Namangan Public Health Technical College named after Abu Ali ibn Sina No. 1   | 1204           | 0              | 0               | 0     |
| 438.                                                                                     | Nukus Public Health Technical College named after Abu Ali ibn Sina No. 1      | 1 323          | 0              | 0               | 0     |
| 439.                                                                                     | Republican Public Health Technical College No. 1 named after Abu Ali ibn Sina | 1 181          | 0              | 0               | 0     |
| 440.                                                                                     | Margilan Public Health Technical College named after Abu Ali ibn Sina No. 2   | 860            | 0              | 0               | 0     |
| 441.                                                                                     | Namangan Public Health Technical College named after Abu Ali ibn Sina No. 2   | 1 007          | 0              | 0               | 0     |
| 442.                                                                                     | Nukus Public Health Technical College named after Abu Ali ibn Sina No. 2      | 1 329          | 0              | 0               | 0     |
| 443.                                                                                     | Republican Public Health Technical College No. 2 named after Abu Ali ibn Sina | 1 450          | 0              | 0               | 0     |
| 444.                                                                                     | Afshona Public Health Technical College named after Abu Ali ibn Sina          | 783            | 0              | 0               | 0     |
| 445.                                                                                     | Andijan Olympic and Paralympic Sports Training Centre                         | 14             | 0              | 0               | 0     |
| 446.                                                                                     | Andijan City Technical College No. 3                                          | 558            | 0              | 0               | 0     |
| 447.                                                                                     | Andijan City Technical College No. 7                                          | 430            | 0              | 0               | 0     |
| 448.                                                                                     | Andijan Law Technical College                                                 | 235            | 0              | 0               | 0     |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                                           |                |                |                 |       |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                                    | Total learners | Dual education | Indicator value | Score |
| 449.                                                                                     | Angor Pedagogical College *                                               | 25             | 0              | 0               | 0     |
| 450.                                                                                     | Angor District Technical College No. 2                                    | 598            | 0              | 0               | 0     |
| 451.                                                                                     | Asaka Public Health Technical College named after Abu Ali ibn Sina        | 1 094          | 0              | 0               | 0     |
| 452.                                                                                     | Baliqchi Public Health Technical College named after Abu Ali ibn Sina     | 929            | 0              | 0               | 0     |
| 453.                                                                                     | Baliqchi District Technical College No. 1                                 | 876            | 0              | 0               | 0     |
| 454.                                                                                     | Bekabad Public Health Technical College named after Abu Ali ibn Sina      | 583            | 0              | 0               | 0     |
| 455.                                                                                     | Beshariq Public Health Technical College named after Abu Ali ibn Sina     | 612            | 0              | 0               | 0     |
| 456.                                                                                     | Bustan Public Health Technical College named after Abu Ali ibn Sina       | 873            | 0              | 0               | 0     |
| 457.                                                                                     | Buvayda Public Health Technical College named after Abu Ali ibn Sina      | 596            | 0              | 0               | 0     |
| 458.                                                                                     | Bukhara Public Health Technical College named after Abu Ali ibn Sina      | 1 705          | 0              | 0               | 0     |
| 459.                                                                                     | Bukhara Tax Technical College                                             | 238            | 0              | 0               | 0     |
| 460.                                                                                     | Bukhara Law Technical College                                             | 192            | 0              | 0               | 0     |
| 461.                                                                                     | Chirchik Olympic and Paralympic Sports Training Centre                    | 47             | 0              | 0               | 0     |
| 462.                                                                                     | Chiroqchi District Technical College No. 3                                | 976            | 0              | 0               | 0     |
| 463.                                                                                     | Chortoq Public Health Technical College named after Abu Ali ibn Sina      | 912            | 0              | 0               | 0     |
| 464.                                                                                     | Dehqonobod Chemical Industry College *                                    | 30             | 0              | 0               | 0     |
| 465.                                                                                     | Dehqonobod District Technical College No. 2                               | 209            | 0              | 0               | 0     |
| 466.                                                                                     | Denov Public Health Technical College named after Abu Ali ibn Sina        | 1 063          | 0              | 0               | 0     |
| 467.                                                                                     | Dustlik Public Health Technical College named after Abu Ali ibn Sina      | 879            | 0              | 0               | 0     |
| 468.                                                                                     | Ellikkala Public Health Technical College named after Abu Ali ibn Sina    | 621            | 0              | 0               | 0     |
| 469.                                                                                     | Fergana City Public Health Technical College named after Abu Ali ibn Sina | 1451           | 0              | 0               | 0     |
| 470.                                                                                     | Fergana Law Technical College                                             | 363            | 0              | 0               | 0     |
| 471.                                                                                     | Gijduvan Public Health Technical College named after Abu Ali ibn Sina     | 1296           | 0              | 0               | 0     |
| 472.                                                                                     | Gallaorol Public Health Technical College named after Abu Ali ibn Sina    | 763            | 0              | 0               | 0     |
| 473.                                                                                     | Gijduvan District Technical College No. 4                                 | 603            | 0              | 0               | 0     |
| 474.                                                                                     | Gulistan Public Health Technical College named after Abu Ali ibn Sina     | 811            | 0              | 0               | 0     |
| 475.                                                                                     | Gulistan Olympic and Paralympic Sports Training Centre                    | 22             | 0              | 0               | 0     |
| 476.                                                                                     | Gurlan District Technical College No. 2                                   | 205            | 0              | 0               | 0     |
| 477.                                                                                     | Gurlan District Technical College No. 3                                   | 100            | 0              | 0               | 0     |
| 478.                                                                                     | Guzar District Technical College No. 2                                    | 737            | 0              | 0               | 0     |
| 479.                                                                                     | Nursing Academy                                                           | 142            | 0              | 0               | 0     |
| 480.                                                                                     | Ishtikhan Public Health Technical College named after Abu Ali ibn Sina    | 1265           | 0              | 0               | 0     |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                                          |                |                |                 |       |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                                   | Total learners | Dual education | Indicator value | Score |
| 481.                                                                                     | Jizzakh Public Health Technical College named after Abu Ali ibn Sina     | 1491           | 0              | 0               | 0     |
| 482.                                                                                     | Jizzakh Olympic and Paralympic Sports Training Centre                    | 16             | 0              | 0               | 0     |
| 483.                                                                                     | Jizzakh Law Technical College                                            | 353            | 0              | 0               | 0     |
| 484.                                                                                     | Kattakurgan Public Health Technical College named after Abu Ali ibn Sina | 1139           | 0              | 0               | 0     |
| 485.                                                                                     | Kattakurgan City Technical College No. 3                                 | 499            | 0              | 0               | 0     |
| 486.                                                                                     | Koson District Technical College No. 2                                   | 1178           | 0              | 0               | 0     |
| 487.                                                                                     | Koson District Technical College No. 3                                   | 516            | 0              | 0               | 0     |
| 488.                                                                                     | Muborak Public Health Technical College named after Abu Ali ibn Sina     | 834            | 0              | 0               | 0     |
| 489.                                                                                     | Namangan Olympic and Paralympic Sports Training Centre                   | 42             | 0              | 0               | 0     |
| 490.                                                                                     | Namangan Pedagogical College *                                           | 1              | 0              | 0               | 0     |
| 491.                                                                                     | Namangan District Technical College No. 4                                | 123            | 0              | 0               | 0     |
| 492.                                                                                     | Navoi Public Health Technical College named after Abu Ali ibn Sina       | 1251           | 0              | 0               | 0     |
| 493.                                                                                     | Navoi Olympic and Paralympic Sports Training Centre                      | 16             | 0              | 0               | 0     |
| 494.                                                                                     | Navoi Law Technical College                                              | 466            | 0              | 0               | 0     |
| 495.                                                                                     | Norin Public Health Technical College named after Abu Ali ibn Sina       | 730            | 0              | 0               | 0     |
| 496.                                                                                     | Ohangaron District Technical College No. 1                               | 316            | 0              | 0               | 0     |
| 497.                                                                                     | Almalyk Public Health Technical College named after Abu Ali ibn Sina     | 766            | 0              | 0               | 0     |
| 498.                                                                                     | Altariq District Technical College No. 1                                 | 458            | 0              | 0               | 0     |
| 499.                                                                                     | Pastdargom Public Health Technical College named after Abu Ali ibn Sina  | 1656           | 0              | 0               | 0     |
| 500.                                                                                     | Pastdargom District Technical College No. 5                              | 227            | 0              | 0               | 0     |
| 501.                                                                                     | Pakhtachi Public Health Technical College named after Abu Ali ibn Sina   | 669            | 0              | 0               | 0     |
| 502.                                                                                     | Pakhtaabad Public Health Technical College named after Abu Ali ibn Sina  | 2324           | 0              | 0               | 0     |
| 503.                                                                                     | Payariq Public Health Technical College named after Abu Ali ibn Sina     | 1181           | 0              | 0               | 0     |
| 504.                                                                                     | Kamashi District Technical College No. 1                                 | 596            | 0              | 0               | 0     |
| 505.                                                                                     | Karshi Public Health Technical College named after Abu Ali ibn Sina      | 1418           | 0              | 0               | 0     |
| 506.                                                                                     | Karshi Olympic and Paralympic Sports Training Centre                     | 8              | 0              | 0               | 0     |
| 507.                                                                                     | Kashkadarya Law Technical College                                        | 217            | 0              | 0               | 0     |
| 508.                                                                                     | Kungrat Public Health Technical College named after Abu Ali ibn Sina     | 387            | 0              | 0               | 0     |
| 509.                                                                                     | Kungrat Chemical Industry College *                                      | 56             | 0              | 0               | 0     |
| 510.                                                                                     | Kokand Public Health Technical College named after Abu Ali ibn Sina      | 3760           | 0              | 0               | 0     |
| 511.                                                                                     | Kurgantepa Public Health Technical College named after Abu Ali ibn Sina  | 835            | 0              | 0               | 0     |
| 512.                                                                                     | Karakul Public Health Technical College named after Abu Ali ibn Sina     | 700            | 0              | 0               | 0     |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                                         |                |                |                 |       |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                                  | Total learners | Dual education | Indicator value | Score |
| 513.                                                                                     | Republic of Karakalpakstan Law Technical College                        | 275            | 0              | 0               | 0     |
| 514.                                                                                     | Kuva Public Health Technical College named after Abu Ali ibn Sina       | 907            | 0              | 0               | 0     |
| 515.                                                                                     | Republican Specialised Technical College for Persons with Disabilities  | 406            | 0              | 0               | 0     |
| 516.                                                                                     | Republican Music and Arts Technical College                             | 479            | 0              | 0               | 0     |
| 517.                                                                                     | Republican Olympic and Paralympic Sports Training Centre                | 90             | 0              | 0               | 0     |
| 518.                                                                                     | Rishton Public Health Technical College named after Abu Ali ibn Sina    | 1088           | 0              | 0               | 0     |
| 519.                                                                                     | Samarkand Public Health Technical College named after Abu Ali ibn Sina  | 1473           | 0              | 0               | 0     |
| 520.                                                                                     | Samarkand Olympic and Paralympic Sports Training Centre                 | 22             | 0              | 0               | 0     |
| 521.                                                                                     | Samarkand City Technical College No. 2                                  | 468            | 0              | 0               | 0     |
| 522.                                                                                     | Samarkand City Technical College No. 3                                  | 186            | 0              | 0               | 0     |
| 523.                                                                                     | Sariosiyo Public Health Technical College named after Abu Ali ibn Sina  | 839            | 0              | 0               | 0     |
| 524.                                                                                     | Shahrisabz Public Health Technical College named after Abu Ali ibn Sina | 1159           | 0              | 0               | 0     |
| 525.                                                                                     | Sherobod Public Health Technical College named after Abu Ali ibn Sina   | 807            | 0              | 0               | 0     |
| 526.                                                                                     | Shurchi District Technical College No. 2                                | 857            | 0              | 0               | 0     |
| 527.                                                                                     | Syrdarya Public Health Technical College named after Abu Ali ibn Sina   | 450            | 0              | 0               | 0     |
| 528.                                                                                     | Syrdarya Law Technical College                                          | 306            | 0              | 0               | 0     |
| 529.                                                                                     | Siyob Public Health Technical College named after Abu Ali ibn Sina      | 1945           | 0              | 0               | 0     |
| 530.                                                                                     | Suzangaron Public Health Technical College named after Abu Ali ibn Sina | 1981           | 0              | 0               | 0     |
| 531.                                                                                     | Surkhandarya Law Technical College                                      | 178            | 0              | 0               | 0     |
| 532.                                                                                     | Termiz Public Health Technical College named after Abu Ali ibn Sina     | 684            | 0              | 0               | 0     |
| 533.                                                                                     | Termiz Olympic and Paralympic Sports Training Centre                    | 27             | 0              | 0               | 0     |
| 534.                                                                                     | Tashkent Geodesy and Cartography Technical College                      | 227            | 0              | 0               | 0     |
| 535.                                                                                     | Tashkent Specialised Technical College for Persons with Disabilities    | 363            | 0              | 0               | 0     |
| 536.                                                                                     | Tashkent City Law Technical College                                     | 277            | 0              | 0               | 0     |
| 537.                                                                                     | Tashkent Region Law Technical College                                   | 167            | 0              | 0               | 0     |
| 538.                                                                                     | Toyloq Olympic and Paralympic Sports Training Centre                    | 11             | 0              | 0               | 0     |
| 539.                                                                                     | Urgench Public Health Technical College named after Abu Ali ibn Sina    | 1 358          | 0              | 0               | 0     |
| 540.                                                                                     | Urgench Olympic and Paralympic Sports Training Centre                   | 9              | 0              | 0               | 0     |
| 541.                                                                                     | Urgut Public Health Technical College named after Abu Ali ibn Sina      | 1 234          | 0              | 0               | 0     |
| 542.                                                                                     | Urgut District Technical College No. 2                                  | 779            | 0              | 0               | 0     |

| Indicator results for the 556 state technical colleges participating in the main ranking |                                                                        |                |                |                 |       |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                      | Technical College name                                                 | Total learners | Dual education | Indicator value | Score |
| 543.                                                                                     | Uzun District Technical College No. 1                                  | 616            | 0              | 0               | 0     |
| 544.                                                                                     | Khatirchi Public Health Technical College named after Abu Ali ibn Sina | 607            | 0              | 0               | 0     |
| 545.                                                                                     | Khatirchi District Technical College No. 2                             | 461            | 0              | 0               | 0     |
| 546.                                                                                     | Khiva Public Health Technical College named after Abu Ali ibn Sina     | 880            | 0              | 0               | 0     |
| 547.                                                                                     | Khiva Services Technical College *                                     | 106            | 0              | 0               | 0     |
| 548.                                                                                     | Khojaabad Public Health Technical College named after Abu Ali ibn Sina | 1 028          | 0              | 0               | 0     |
| 549.                                                                                     | Khujaili Public Health Technical College named after Abu Ali ibn Sina  | 569            | 0              | 0               | 0     |
| 550.                                                                                     | Khorezm Law Technical College                                          | 322            | 0              | 0               | 0     |
| 551.                                                                                     | Yakkabog District Technical College No. 3                              | 637            | 0              | 0               | 0     |
| 552.                                                                                     | Yangiobod District Technical College                                   | 340            | 0              | 0               | 0     |
| 553.                                                                                     | Yangiyul Public Health Technical College named after Abu Ali ibn Sina  | 804            | 0              | 0               | 0     |
| 554.                                                                                     | Yunusobod Public Health Technical College named after Abu Ali ibn Sina | 1 033          | 0              | 0               | 0     |
| 555.                                                                                     | Zangiota Public Health Technical College named after Abu Ali ibn Sina  | 369            | 0              | 0               | 0     |
| 556.                                                                                     | Zomin Public Health Technical College named after Abu Ali ibn Sina     | 1 199          | 0              | 0               | 0     |

**Note.** \*In technical colleges that, in accordance with the relevant regulatory legal acts, are in the process of termination or reorganisation, where a school or preschool education organisation is to be established on their basis, as well as in recently reorganised technical colleges, learner numbers and results may be low or zero.

## Appendix 2. Indicator results for the 28 special-status technical colleges ranked separately

| Indicator results for the 28 <u>special-status</u> technical colleges ranked separately |                                                              |                |                |                 |       |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|----------------|-----------------|-------|
| No.                                                                                     | Technical College name                                       | Total learners | Dual education | Indicator value | Score |
| 1.                                                                                      | Bukhara District Technical College No. 1                     | 781            | 313            | 0.401           | 8.000 |
| 2.                                                                                      | Jizzakh City Technical College No. 1                         | 396            | 152            | 0.384           | 7.662 |
| 3.                                                                                      | Kashkadarya Advanced Vocational Skills Technical College     | 404            | 152            | 0.376           | 7.510 |
| 4.                                                                                      | Uychi District Technical College No. 1                       | 687            | 224            | 0.326           | 6.509 |
| 5.                                                                                      | Asaka District Technical College No. 4                       | 1141           | 358            | 0.314           | 6.263 |
| 6.                                                                                      | Termiz City Technical College No. 2                          | 380            | 114            | 0.300           | 5.988 |
| 7.                                                                                      | Namangan Advanced Vocational Skills Technical College        | 679            | 197            | 0.290           | 5.792 |
| 8.                                                                                      | Navbahor District Technical College No. 2                    | 719            | 198            | 0.275           | 5.497 |
| 9.                                                                                      | Jizzakh Advanced Vocational Skills Technical College         | 1308           | 360            | 0.275           | 5.494 |
| 10.                                                                                     | Khorezm Advanced Vocational Skills Technical College         | 568            | 123            | 0.217           | 4.323 |
| 11.                                                                                     | Syrdarya District Technical College No. 1                    | 692            | 144            | 0.208           | 4.154 |
| 12.                                                                                     | Bukhara Advanced Vocational Skills Technical College         | 555            | 112            | 0.202           | 4.028 |
| 13.                                                                                     | Guzar District Technical College No. 3                       | 575            | 97             | 0.169           | 3.367 |
| 14.                                                                                     | Andijan Advanced Vocational Skills Technical College         | 279            | 47             | 0.168           | 3.363 |
| 15.                                                                                     | Syrdarya Advanced Vocational Skills Technical College        | 269            | 42             | 0.156           | 3.117 |
| 16.                                                                                     | Chirchik City Technical College No. 1                        | 517            | 80             | 0.155           | 3.089 |
| 17.                                                                                     | Nukus Advanced Vocational Skills Technical College           | 652            | 87             | 0.133           | 2.664 |
| 18.                                                                                     | Chilonzor District Technical College No. 1                   | 1038           | 137            | 0.132           | 2.635 |
| 19.                                                                                     | Fergana Advanced Vocational Skills Technical College         | 764            | 98             | 0.128           | 2.561 |
| 20.                                                                                     | Samarkand Advanced Vocational Skills Technical College       | 1513           | 117            | 0.077           | 1.544 |
| 21.                                                                                     | Fergana City Technical College No. 4                         | 465            | 29             | 0.062           | 1.245 |
| 22.                                                                                     | Nukus City Technical College No. 1                           | 1116           | 65             | 0.058           | 1.163 |
| 23.                                                                                     | Samarkand City Technical College No. 1                       | 553            | 18             | 0.033           | 0.650 |
| 24.                                                                                     | Navoi Advanced Vocational Skills Technical College           | 1452           | 25             | 0.017           | 0.344 |
| 25.                                                                                     | Urgench City Technical College No. 1                         | 511            | 0              | 0               | 0     |
| 26.                                                                                     | Surkhandarya Advanced Vocational Skills Technical College    | 483            | 0              | 0               | 0     |
| 27.                                                                                     | Tashkent Region Advanced Vocational Skills Technical College | 0              | 0              | 0               | 0     |
| 28.                                                                                     | Tashkent City Advanced Vocational Skills Technical College   | 0              | 0              | 0               | 0     |

### Appendix 3. Indicator results for the 51 technical colleges in the non-state sector

| Indicator results for <u>the</u> 51 technical colleges in the non-state sector |                                                          |                |                |       |
|--------------------------------------------------------------------------------|----------------------------------------------------------|----------------|----------------|-------|
| No.                                                                            | Technical College name                                   | Total learners | Dual education | Share |
| 1                                                                              | Alpha Professional Education Medical Technical College   | 528            | 182            | 34%   |
| 2                                                                              | Margilan Multidisciplinary Technical College             | 31             | 8              | 26%   |
| 3                                                                              | Aralboyi Medicine and Transport Technical College        | 1 583          | 191            | 12%   |
| 4                                                                              | Andijan IT-Med Technical College                         | 469            | 0              | 0     |
| 5                                                                              | AYLIM Private Educational Institution                    | 395            | 0              | 0     |
| 6                                                                              | ALFA Medical Technical College                           | 958            | 0              | 0     |
| 7                                                                              | ALPHA Medical Technical College                          | 908            | 0              | 0     |
| 8                                                                              | AVISENA Medical Technical College                        | 151            | 0              | 0     |
| 9                                                                              | Avicenna Medical College                                 | 824            | 0              | 0     |
| 10                                                                             | Beruniy Medical Technical College                        | 275            | 0              | 0     |
| 11                                                                             | Bukhara Avicenna Technical College                       | 13             | 0              | 0     |
| 12                                                                             | Bukhara Innovative Medical Technical College             | 1 037          | 0              | 0     |
| 13                                                                             | Bukhara International Medical Technical College          | 910            | 0              | 0     |
| 14                                                                             | Chirchik Innovative Medical and Health Technical College | 922            | 0              | 0     |
| 15                                                                             | EMU College                                              | 367            | 0              | 0     |
| 16                                                                             | Denov Ziya Medical Technical College                     | 231            | 0              | 0     |
| 17                                                                             | Gulistan Medical and IT Technical College                | 819            | 0              | 0     |
| 18                                                                             | Science-Education-Business-Medical Technical College     | 1203           | 0              | 0     |
| 19                                                                             | IT Med International Education Cluster                   | 92             | 0              | 0     |
| 20                                                                             | Khiva Medical Technical College                          | 989            | 0              | 0     |
| 21                                                                             | Multi Network Medical Technical College                  | 1325           | 0              | 0     |
| 22                                                                             | Koson Medical Technical College                          | 252            | 0              | 0     |
| 23                                                                             | Med Innovative IT Technical College                      | 336            | 0              | 0     |
| 24                                                                             | Med Invest Innovative Medical Technical College          | 308            | 0              | 0     |
| 25                                                                             | Medstart Medical Technical College                       | 354            | 0              | 0     |
| 26                                                                             | Higher School of Engineering and Technologies            | 40             | 0              | 0     |
| 27                                                                             | Namangan Innovative Medical Technical College            | 1116           | 0              | 0     |
| 28                                                                             | Namangan International Medical Technical College         | 746            | 0              | 0     |
| 29                                                                             | Navoi Med Invest Medical Technical College               | 471            | 0              | 0     |
| 30                                                                             | Nukus Medical and IT Technical College                   | 440            | 0              | 0     |
| 31                                                                             | Karshi Health Technical College                          | 257            | 0              | 0     |
| 32                                                                             | Karshi Medical Technical College                         | 1252           | 0              | 0     |
| 33                                                                             | Registan Medical Technical College                       | 865            | 0              | 0     |
| 34                                                                             | Registon Technical College                               | 738            | 0              | 0     |
| 35                                                                             | Samarkand Regional Medical Technical College             | 406            | 0              | 0     |
| 36                                                                             | Sharq Medical Technical College                          | 20             | 0              | 0     |
| 37                                                                             | Shahrisabz International Medical Technical College       | 965            | 0              | 0     |
| 38                                                                             | Sino Medical Technical College                           | 1142           | 0              | 0     |
| 39                                                                             | Surkhandarya Regional Medical Technical College          | 1483           | 0              | 0     |
| 40                                                                             | Tabobat Ilmi Medical Technical College                   | 290            | 0              | 0     |
| 41                                                                             | TOPEX Technical College                                  | 403            | 0              | 0     |
| 42                                                                             | Tashkent Vocational and Medical Technical College        | 1 813          | 0              | 0     |
| 43                                                                             | Tashkent Region Innovative Medical Technical College     | 258            | 0              | 0     |
| 44                                                                             | Tashkent International Medical Technical College         | 478            | 0              | 0     |
| 45                                                                             | Turan Med International Medical College                  | 586            | 0              | 0     |
| 46                                                                             | Turkiston International Technical College                | 511            | 0              | 0     |
| 47                                                                             | Turan Med-Class                                          | 437            | 0              | 0     |

| Indicator results for <u>the</u> 51 technical colleges in the non-state sector |                                                    |                |                |       |
|--------------------------------------------------------------------------------|----------------------------------------------------|----------------|----------------|-------|
| No.                                                                            | Technical College name                             | Total learners | Dual education | Share |
| 48                                                                             | WISE Medical Technical College                     | 63             | 0              | 0     |
| 49                                                                             | International Innovative Medical Technical College | 2 637          | 0              | 0     |
| 50                                                                             | Khorezm Med Invest Medical Technical College       | 840            | 0              | 0     |
| 51                                                                             | Ochiloff Medical Technical College                 | 0              | 0              | 0     |

## Appendix 4. Indicator results for the 44 state technical colleges with no graduates in 2025

| Indicator results for the <u>44</u> state technical colleges with no graduates in 2025 |                                                                               |                |                |       |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------|----------------|-------|
| No.                                                                                    | Technical College name                                                        | Total learners | Dual education | Share |
| 1.                                                                                     | Kokand City Technical College No. 6                                           | 925            | 735            | 79%   |
| 2.                                                                                     | Sokh District Technical College No. 1                                         | 315            | 143            | 45%   |
| 3.                                                                                     | Jizzakh Digital Technologies Technical College                                | 478            | 207            | 43%   |
| 4.                                                                                     | Karshi District Technical College No. 2                                       | 1148           | 457            | 40%   |
| 5.                                                                                     | Bukhara District Technical College No. 2                                      | 252            | 94             | 37%   |
| 6.                                                                                     | Namangan Pedagogical Technical College                                        | 1226           | 451            | 37%   |
| 7.                                                                                     | Norin District Technical College No. 3                                        | 433            | 138            | 32%   |
| 8.                                                                                     | Shahrikhan District Technical College No. 4                                   | 599            | 187            | 31%   |
| 9.                                                                                     | Yangikurgan District Technical College No. 3                                  | 152            | 47             | 31%   |
| 10.                                                                                    | Samarkand City Technical College No. 5                                        | 424            | 123            | 29%   |
| 11.                                                                                    | Zomin District Technical College No. 2                                        | 576            | 160            | 28%   |
| 12.                                                                                    | Chirchik City Technical College No. 2                                         | 136            | 35             | 26%   |
| 13.                                                                                    | Shahrisabz District Technical College No. 3                                   | 565            | 137            | 24%   |
| 14.                                                                                    | Okoltin District Technical College No. 1                                      | 400            | 96             | 24%   |
| 15.                                                                                    | Karshi District Technical College No. 3                                       | 463            | 106            | 23%   |
| 16.                                                                                    | Kushtepa District Technical College No. 1                                     | 946            | 213            | 23%   |
| 17.                                                                                    | Boyovut District Technical College No. 2                                      | 383            | 86             | 22%   |
| 18.                                                                                    | Urgench District Technical College No. 4                                      | 264            | 59             | 22%   |
| 19.                                                                                    | Izboskan District Technical College No. 3                                     | 488            | 104            | 21%   |
| 20.                                                                                    | Specialised Agricultural Technical College named after Lola Murotova          | 503            | 101            | 20%   |
| 21.                                                                                    | Sherobod District Technical College No. 3                                     | 545            | 108            | 20%   |
| 22.                                                                                    | Kuyi Chirchik District Technical College No. 1                                | 197            | 26             | 13%   |
| 23.                                                                                    | Urgench City Technical College No. 3                                          | 506            | 21             | 4%    |
| 24.                                                                                    | Angren Public Health Technical College named after Abu Ali ibn Sina           | 438            | 0              | 0%    |
| 25.                                                                                    | Specialised Boxing Sports School named after Bahodir Jalolov                  | 24             | 0              | 0%    |
| 26.                                                                                    | Bukhara Olympic and Paralympic Sports Training Centre                         | 17             | 0              | 0%    |
| 27.                                                                                    | Chust Public Health Technical College named after Abu Ali ibn Sina            | 905            | 0              | 0%    |
| 28.                                                                                    | Dehqonobod Public Health Technical College named after Abu Ali ibn Sina       | 644            | 0              | 0%    |
| 29.                                                                                    | Fergana District Public Health Technical College named after Abu Ali ibn Sina | 546            | 0              | 0%    |
| 30.                                                                                    | Fergana City Specialised Technical College for Persons with Disabilities      | 412            | 0              | 0%    |
| 31.                                                                                    | Ishtikhan Pedagogical College *                                               | 32             | 0              | 0%    |
| 32.                                                                                    | Jarkurgan Construction and Transport Technical College                        | 75             | 0              | 0%    |
| 33.                                                                                    | Pakhtaabad Pedagogical College *                                              | 26             | 0              | 0%    |
| 34.                                                                                    | Pop Public Health Technical College named after Abu Ali ibn Sina              | 805            | 0              | 0%    |
| 35.                                                                                    | Samarkand Specialised Technical College for Persons with Disabilities         | 230            | 0              | 0%    |
| 36.                                                                                    | Shahrisabz Pedagogical College *                                              | 24             | 0              | 0%    |

| Indicator results for the <u>44</u> state technical colleges with no graduates in 2025 |                                                                        |                |                |       |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------|----------------|-------|
| No.                                                                                    | Technical College name                                                 | Total learners | Dual education | Share |
| 37.                                                                                    | Shurchi Public Health Technical College named after Abu Ali ibn Sina   | 800            | 0              | 0%    |
| 38.                                                                                    | Turtkul Public Health Technical College named after Abu Ali ibn Sina   | 630            | 0              | 0%    |
| 39.                                                                                    | Turtkul Pedagogical College *                                          | 23             | 0              | 0%    |
| 40.                                                                                    | Tashkent City Design and Technology Training Technical College *       | 10             | 0              | 0%    |
| 41.                                                                                    | Hazorasp Pedagogical College *                                         | 23             | 0              | 0%    |
| 42.                                                                                    | Khujaili Pedagogical College *                                         | 17             | 0              | 0%    |
| 43.                                                                                    | Yangiyer Public Health Technical College named after Abu Ali ibn Sina  | 689            | 0              | 0%    |
| 44.                                                                                    | Zarafshan Public Health Technical College named after Abu Ali ibn Sina | 510            | 0              | 0%    |

**Note.** \*In technical colleges that, in accordance with the relevant regulatory legal acts, are in the process of termination or reorganisation, where a school or preschool education organisation is to be established on their basis, as well as in recently reorganised technical colleges, learner numbers and results may be low or zero.

**Author:** Adkhamjon Mahkamov

**Position:** Chief Inspector, Secondary Specialised and Vocational Education Institutions Ranking Management Group

**Author:** Aziz Mullayev

**Position:** Chief Inspector, Higher and Postgraduate Education Institutions Ranking Management Group

**Translated by:** Askarbek Narimanov

**Position:** Chief Inspector, Strategic Development and International Cooperation Group



 +998 55 505 30 30

 [info@nqaae.uz](mailto:info@nqaae.uz)  
[www.nqaae.uz](http://www.nqaae.uz)

   @nqaaeuz

 @nqaaeuzbot