



تقرير ورشة عمل

(مسودة خارطة الطريق بشأن التحول الرقمي في مجال التعليم والتدريب الفني والمهني في بلدان منظمة التعاون الاسلامي)

اولا : معلومات المشارك:

اسم المشترك	مهند إسماعيل حسين
التحصيل الدراسي والاختصاص	ماجستير قانون عام
العنوان الوظيفي	مشاور قانوني
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ثانيا : معلومات البرنامج التدريبي:-

عنوان البرنامج	ورشة عمل مسودة خارطة الطريق بشأن التحول الرقمي في مجال التعليم والتدريب الفني والمهني في بلدان منظمة التعاون الاسلامي
طبيعة البرنامج التدريبي	مشروع بعنوان تطوير خارطة فعالة لتسهيل التحول الرقمي في الأنظمة الوطنية للتعليم المهني والتدريب في الدول الأعضاء في منظمة التعاون الاسلامي
البلد	اذربيجان
الجهة المنظمة	منظمة التعاون الإسلامي (مركز الابحاث الاحصائية والاقتصادية والاجتماعية والتدريب للدول الاسلامية، سيسرك)
مدة البرنامج	2 يوم
التاريخ	من (24-25/ايلول /2025)
الجهات الحكومية المشاركة في البرنامج	هيئة الإحصاء ونظم المعلومات الجغرافية / دائرة تكنولوجيا المعلومات/ دائرة التعاون الدولي
البلدان المشاركة الاخرى	العراق / الأردن / تونس/ باكستان/أذربيجان/ماليزيا / جامبيا/ نيجيريا /قطر



ثالثاً: منهاج الورشة:-

أ. تجربة أذربيجان: عملية الرقمنة في مجال التعليم والتدريب الفني والمهني.

ب. الأولويات ذات الأهمية:

1: تعزيز أطر السياسات

الهدف هو إرساء بيئة سياسات داعمة للتحويل الرقمي في التعليم المهني.
المحاور الأساسية تشمل:

- تطوير استراتيجيات وطنية شاملة للتعليم الرقمي.
 - وضع أطر تنظيمية وقانونية وآليات تمويل مستدامة.
 - سد الفجوة الرقمية وتعزيز توحيد المقاييس وقابلية التشغيل.
 - تمكين المعلمين والمدرسين وضمان مرونة المناهج وجودة المحتوى الرقمي.
 - اعتماد سياسات قائمة على البيانات ومشاركة الأطراف المعنية.
- الهدف النهائي: بناء أنظمة تعليمية مرنة وشاملة قادرة على إعداد الأفراد لمتطلبات المستقبل.

2: تعزيز البنية التحتية وقابلية الوصول

- التركيز على بناء بنية تحتية رقمية قوية وشاملة تسند عملية التحويل الرقمي وتتمثل في:
- تطوير شبكات اتصال موثوقة وواسعة النطاق.
 - توفير الأجهزة والتطبيقات الرقمية الحديثة.
 - تعزيز الربط بين البنية المادية (الأجهزة) والناعمة (المنصات والبرامج) لضمان وصول الجميع إلى التعليم الرقمي.
- #### 3: تنمية المهارات الرقمية

- تهدف الجلسة إلى بناء القدرات الرقمية لجميع الفاعلين في منظومة التعليم المهني، وتشمل:
- تطوير مهارات رقمية متقدمة للمتعلمين والمدرسين والمسيرين.
 - ضمان أن يمتلك الخريجون كفاءات رقمية تواكب متطلبات السوق.
 - اعتماد برامج تقييم وشهادات دولية للمهارات الرقمية.
- الهدف: إعداد موارد بشرية قادرة على المنافسة في الاقتصاد الرقمي العالمي.

4: تحديث البرامج والمحتوى

- يركّز على تطوير المناهج وطرق التدريس باستخدام الأدوات الرقمية، ويتناول:
- توظيف الدورات الإلكترونية والتعلم المدمج (المختلط).
 - إدخال تقنيات الواقع الافتراضي والمعزز في التدريب.
 - تحديث الأساليب البيداغوجية مثل التعلم القائم على المشاريع والتعلم التعاوني.
 - ضمان جودة المحتوى وتطوير برامج مستمرة للمدرسين.
- النتيجة: تعليم مهني حديث وتفاعلي قائم على التكنولوجيا.



5: التعاون بين الصناعة ومؤسسات التعليم

الغاية هي تعزيز الشراكة بين القطاعين الصناعي والتعليمي لضمان مواءمة المهارات مع احتياجات السوق.

النقاش يشمل:

- تحليل تغيرات سوق العمل وتوقع مستقبل الوظائف.
- تحديد المهارات الناشئة المطلوبة.
- مواءمة برامج التدريب مع التحولات التكنولوجية مثل الذكاء الاصطناعي والأتمتة.
- الهدف: بناء قوة عاملة مرنة ومؤهلة للتغيرات المستقبلية.

6: التعاون بين دول منظمة التعاون الإسلامي

تؤكد هذه الجلسة على أهمية العمل الجماعي وتبادل الخبرات بين الدول الأعضاء.

- تحديد التحديات المشتركة ووضع حلول جماعية.
- الانتقال من التخطيط النظري إلى مشاريع عملية.
- استعراض نماذج ناجحة للتعاون وتحديد مجالات جديدة للشراكات.
- النتيجة: تحقيق أثر جماعي ملموس يعزز جودة التعليم المهني في الدول الأعضاء.

7: تعبئة الموارد

التركيز على تأمين التمويل المستدام والمبتكر لتنفيذ خارطة الطريق.

- تنويع مصادر التمويل وعدم الاعتماد فقط على الحكومات.
- تشجيع الشراكات الاستثمارية والتعاون الدولي.
- تحديد خطوات عملية قابلة للتنفيذ لضمان استمرارية المشاريع.
- الهدف: تمويل كافٍ ومستدام لدعم التحول الرقمي في التعليم والتدريب المهني.



About SESRIC



Project on "Developing an Effective Roadmap for Facilitating Digital Transition in National VET Systems in OIC Member Countries"

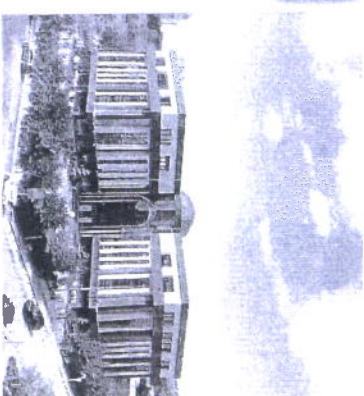
Workshop on

"Developing Roadmap for Vocational Education and Training Systems Across OIC Member Countries"

24-25 September 2025

Baku, Azerbaijan

This Project is funded under the 1st Call for Project Proposals of COMCEC Project Funding.



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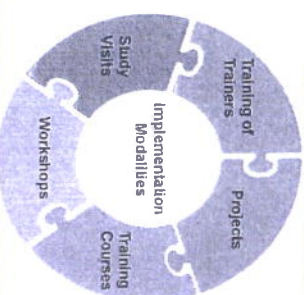
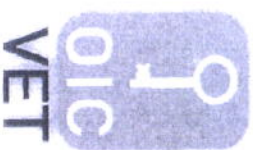
Vocational Education and Training Programme for the Member Countries of the Organisation of Islamic Cooperation (OIC-VET)

Background:

- Launched in 2009 at the COMCEC Economic Summit in Istanbul.
- Developed by SESRIC to strengthen TVET across OIC Member Countries.

Objectives:

- Support member countries in overcoming TVET challenges.
- Enhance quality, innovation, and relevance of vocational education.
- Strengthen cooperation among TVET institutions, enterprises, and stakeholders.
- Contribute to economic development and competitiveness.
- Strategic Roadmap (2020-2025): Endorsed by the 35th COMCEC Ministerial Session.



This Project is funded under the 1st Call for Project Proposals of COMCEC Project Funding.



Project on "Empowering Youth through Enhancing TVET: A Pathway to Employment and Success"

Overall Objectives:

- ✓ Improve TVET strategies in OIC member countries in order to increase youth employment.
- ✓ Increase the capacities of national TVET institutions through training and experience-sharing.
- ✓ Contribute to COMCEC Strategy and OIC-2025 Action Plan on youth, education, and poverty alleviation.

This Project is funded under the 1st Call for Project Proposals of COMCEC Project Funding.

Working Group Meeting on “Facilitating Digital Transition of National VET Systems in OIC Countries”

Working Group Meeting on “Facilitating Digital Transition of National VET Systems in OIC Countries”

OUTPUT

1. Infrastructure Gaps

2. Curriculum, Content and Pedagogical Challenges

3. Digital Skills Gaps

4. Policy and Governance

5. Financial and Sustainability Barriers

Main Challenges

This Project is funded under the 12th Call for Project Proposals of COMCEC Project Funding

OUTPUT

Key priority areas:



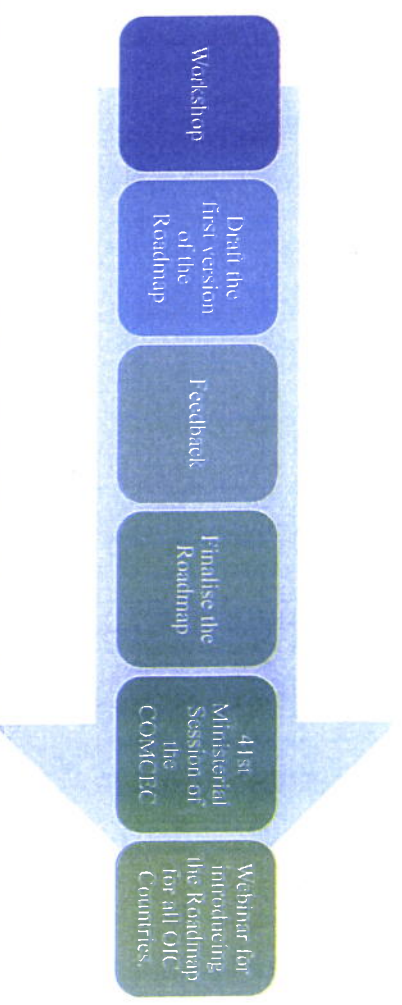
This Project is funded under the 12th Call for Project Proposals of COMCEC Project Funding

Workshop on “Developing Roadmap for Vocational Education and Training Systems Across OIC Member Countries”

Way Forward

Objectives

- ✓ Collaboratively review and prioritize key focus areas of the Roadmap
- ✓ Develop clear, actionable, and measurable objectives for each priority area
- ✓ Outline specific actions for each objective



This Project is funded under the 12th Call for Project Proposals of COMCEC Project Funding

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Project on "Empowering Youth through Enhancing Technical and Vocational Education and Training (TVET): A Pathway to Employment and Success"



Training Course on "Enhancing Policies and
Strategies for Effective TVET Systems in OIC
Member Countries"
01-03 October 2024

Workshop on "Strengthening TVET Strategies to
Increase Youth Employment in OIC Member
Countries"
19-20 November 2024

This Project is funded under the 12th Call for Project Proposals of COMEC Project Funding



Project on "Empowering Youth through Enhancing TVET: A Pathway to Employment and Success"

Investing in the TVET infrastructure by allocating sufficient resources
for building, equipping, and maintaining TVET institutions

Encouraging OIC Member Countries to foster a digital culture and
invest in developing digital skills, emphasising education and training to
harness the potential of digital transformation in the TVET domain.

Investing in the modernization of TVET curricula by updating curricula
to incorporate emerging technologies and industry trends.

Utilizing innovative teaching methods by employing technology-
enabled learning and blended learning approaches.

Inviting OIC countries to collaborate in developing an effective
roadmap for facilitating digital transition in national TVET systems in
OIC member countries.

This Project is funded under the 12th Call for Project Proposals of COMEC Project Funding



Project on "Developing an Effective Roadmap for Facilitating Digital Transition in National VET Systems in OIC Member Countries"



Project on "Developing an Effective Roadmap for Facilitating Digital Transition in National VET Systems in OIC Member Countries"



Objective

To support OIC member countries in developing a strategic, practical,
and sustainable roadmap that guides the digital transformation of
national TVET systems, enhancing quality, access, and labour market
alignment.

2

Main

Activities

Online Working Group on Facilitating Digital Transition of National VET
Systems in OIC Countries, 19-20 August 2025

Workshop on "Developing Roadmap for Vocational Education and
Training Systems Across OIC Member Countries" on 24-25 September
2025, Baku Azerbaijan

This Project is funded under the 12th Call for Project Proposals of COMEC Project Funding

This Project is funded under the 12th Call for Project Proposals of COMEC Project Funding

Working Group Meeting on “Facilitating Digital Transition of National VET Systems in OIC Countries”

Working Group Meeting on “Facilitating Digital Transition of National VET Systems in OIC Countries”

OUTPUT

- ✓ Exploring the current needs, capacities, and strategic priorities of OIC member countries to advance the digital transformation of their VET
- ✓ Identifying key challenges and opportunities in digitalization, promoting the integration of technology to enhance the quality, accessibility, and efficiency of VET programmes
- ✓ Identifying the main priority areas of the Roadmap.



19-20 August 2025

This Project is funded under the 12th Call for Project Proposals of COMETEC Project Funding

This Project is funded under the 12th Call for Project Proposals of COMETEC Project Funding

Working Group Meeting on “Facilitating Digital Transition of National VET Systems in OIC Countries”

Workshop on “Developing Roadmap for Vocational Education and Training Systems Across OIC Member Countries”

OUTPUT



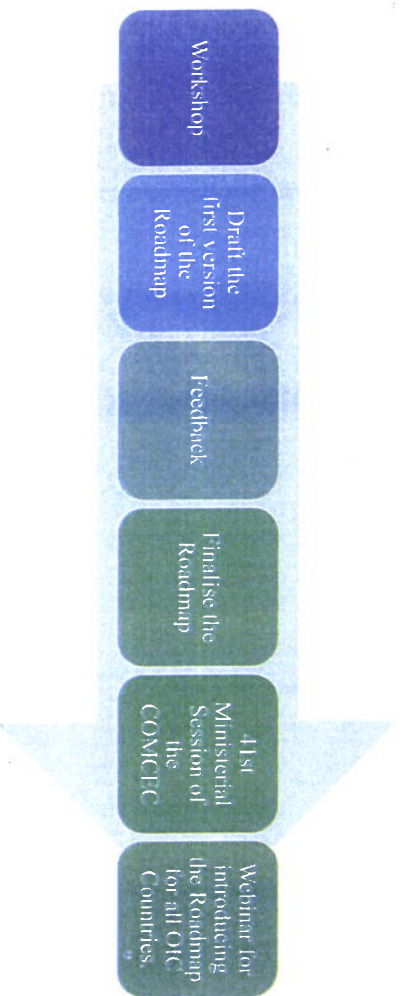
Key priority areas:

- ✓ Collaboratively review and prioritize key focus areas of the Roadmap
- ✓ Develop clear, actionable, and measurable objectives for each priority area
- ✓ Outline specific actions for each objective

This Project is funded under the 12th Call for Project Proposals of COMETEC Project Funding

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Way Forward



This Project is funded under the 12th call for Project Proposals of COMCEC Project Funding



Vocational Education System in Azerbaijan

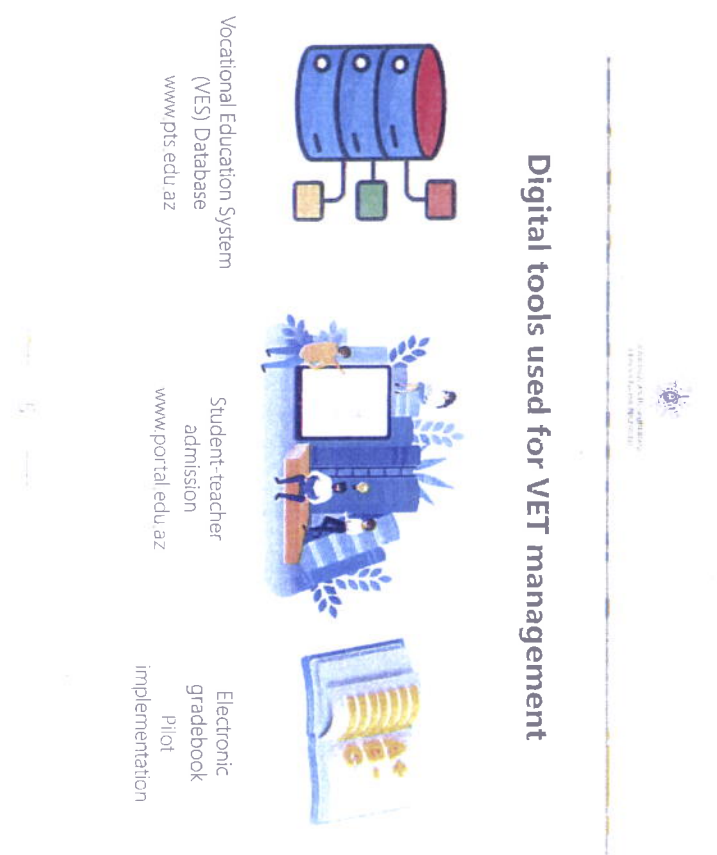
Legal framework: The system is regulated mainly by the Law on Education and the Law on Vocational Education, as well as number of regulatory documents. NQF of the Republic of Azerbaijan on lifelong learning includes 8 levels, with vocational education covering levels 3-5.

VET levels:

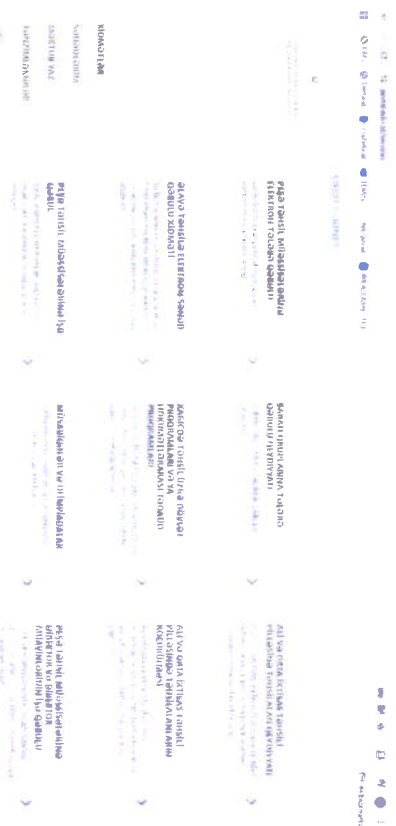
- o Initial vocational education
- o Technical vocational education
- o Higher technical vocational education

Management of vocational education

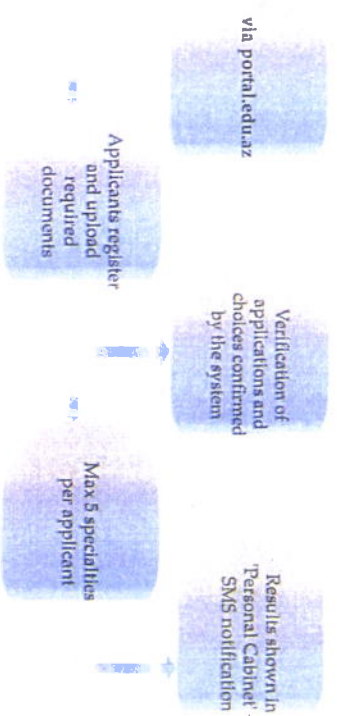
- The Ministry of Science and Education
Define policy on vocational education
- The State Agency for Vocational Education
Provide and coordinate implementation of state policy
- Vocational Education Institutions
Education providers
- 79 VET Institutions
- 40 000+ students



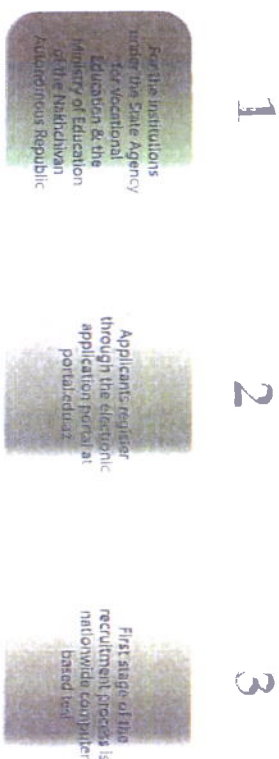
Student admission, staff recruitment process (portal.edu.az)



Student admission

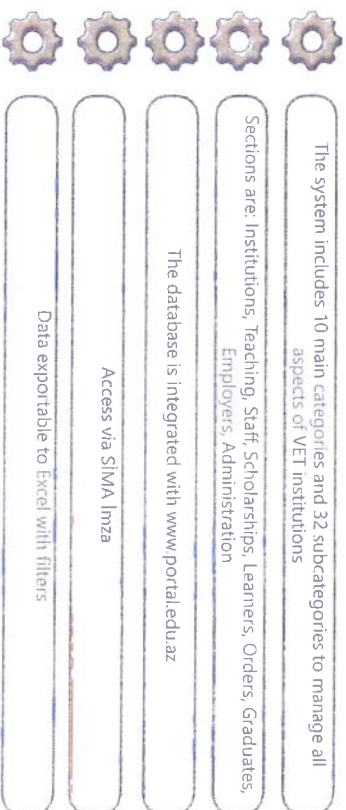


Staff recruitment: principals, deputy principals, teachers, masters

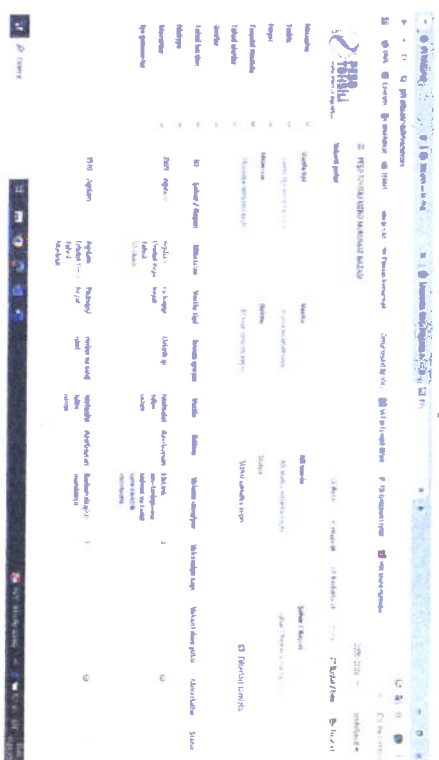


- Each candidate creates their own unique personal account on the portal and can monitor their application status and results
- The portal is integrated with various state electronic resources for automatic data upload
- The system also facilitates student transfers

VES Database (pts.edu.az)



VES Database (pts.edu.az)



MINISTRY OF EDUCATION AND SCIENCE
of the Azerbaijan Republic

Electronic gradebook in VET



The process of developing an appropriate electronic system is currently underway to ensure the use of electronic gradebooks in vocational education institutions.



The software of the system is currently in the testing stage, during which initial tests are being conducted on technical stability, functional compliance, and user interface.

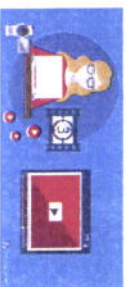


Based on the results of the pilot stage, wider application and further improvement of the system are planned

Content components



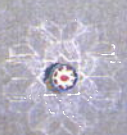
Curriculums
vet.edu.gov.az



Video lessons
<https://www.youtube.com/@peshetehsil>



Textbooks
E-derslik.edu.az



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ELM VA TƏHSİL NAZIRLIYI

VET digital content and resources

Digital Skills as a Key Competency

- 1 The National Qualifications Framework and State Standards for Vocational Education embed digital skills as a core competency for lifelong learning
- 2 Digital skills are taught as a separate subject (ICT) in all vocational programs
- 3 Class hours range from 45 hours (one-year programs) to 190 hours (two- and three-year programs)
- 4 20 ICT related competency based programs like Cybersecurity, 3D game design, Digital construction, Digital content management, Network administration, etc. were developed from 2019-2025

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Challenges

Resources

Over 200 textbooks are developed, translated, published and distributed. Digital versions of textbooks are placed in <https://www.e-desilk.edu.az/site/index.php> portal and are available online

Video Lessons the SAVE youtube channel hosts around 500 video lessons across various specialties and career guidance

During last four years 3368 laptops and PCs provided to VET institutions

Eleven CNC workshops, drones, STEAM and ICT labs equipped with augmented reality and driving simulators, 3D printers, relevant software, etc., have been built. These resources are used not only for ICT programs but also for vocational education programs in agriculture, services, and manufacturing.

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Challenges and solutions

Human Factor Challenges

1. Low Digital Skills among Educators
2. Shortage of Specialists- There is a need for experts in CNC machines, digital equipment, and the preparation of digital learning resources

Solutions

- Continuous training sessions are organized to address this. For example, 414 people attended training in various ICT fields, both in country and international.
- Ongoing training programs and collaborations with employers

Technical Challenges

1. Digital divide- there's a gap between VET institutions, especially recently built and old schools
2. Digital Equipment Malfunctions-A major challenge is finding spare parts and experts for repairs, which can delay the teaching process

Solutions

- State support for the reconstruction of old schools
- Building strong partnership with industry and service providers

Thank you for your
attention!