

EASTRIP

Skills for Transformation & Regional Integration



WORLD BANK GROUP

OVERVIEW OF EASTRIP

Background, Achievements and Success Stories

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1. Project Background and Objectives

- The East Africa Skills for Transformation and Regional Integration Project (EASTRIP) is a five-year initiative funded by the World Bank and the Governments of Ethiopia, Kenya and Tanzania for the initial period of 2019 to 2024. Two more years were granted to finalize the infrastructure development, up to December 2026.
- The US\$ 293M project is to be implemented by Ethiopia (US\$ 150M), Kenya (US\$ 60M), Tanzania (US\$ 75M), and IUCEA (US\$ 8M). During the Extension period, Tanzania and Ethiopia were given with additional financing of \$15 mil and \$30 mil, respectively.
- Through the project, the three participating governments provide support and resources to create and implement policies that will allow TVET institutions to re-engineer their learning platforms and modes of delivery in order to meet the dynamic and ever-changing skills requirements of the market places.
- The Project Development Objective (PDO) is to increase access and improve the quality of TVET programs in 16 selected Regional Flagship TVET Institutes (RFTIs) and to support regional integration in East Africa.
- Out of 16 RFTIs, 7 are in Ethiopia, 5 in Kenya and 4 are in Tanzania.

Project Development Objectives (PDOs)

- To increase the access to TVET Programs
- To improve the quality and relevance of Technical and Vocational Education Training (TVET) programs and;
- To support regional integration
- EASTRIP is aiming at development of specialized technical skills in regional priority sectors that include
 - **transportation/infrastructure,**
 - **energy/power,**
 - **manufacturing, and**
 - **information and communications technology.**
 - **Tourism**

Precision Tools, spare parts & dyes



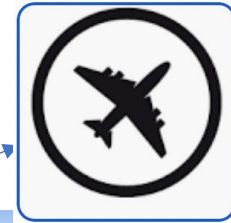
Agro-processing



Textile & garment



Aviation



Roads & buildings



Maritime



Railways



Geothermal



Hydropower



Energy

Transport /building construction

EASTRIP

ICT

Manufa cturing

ICT



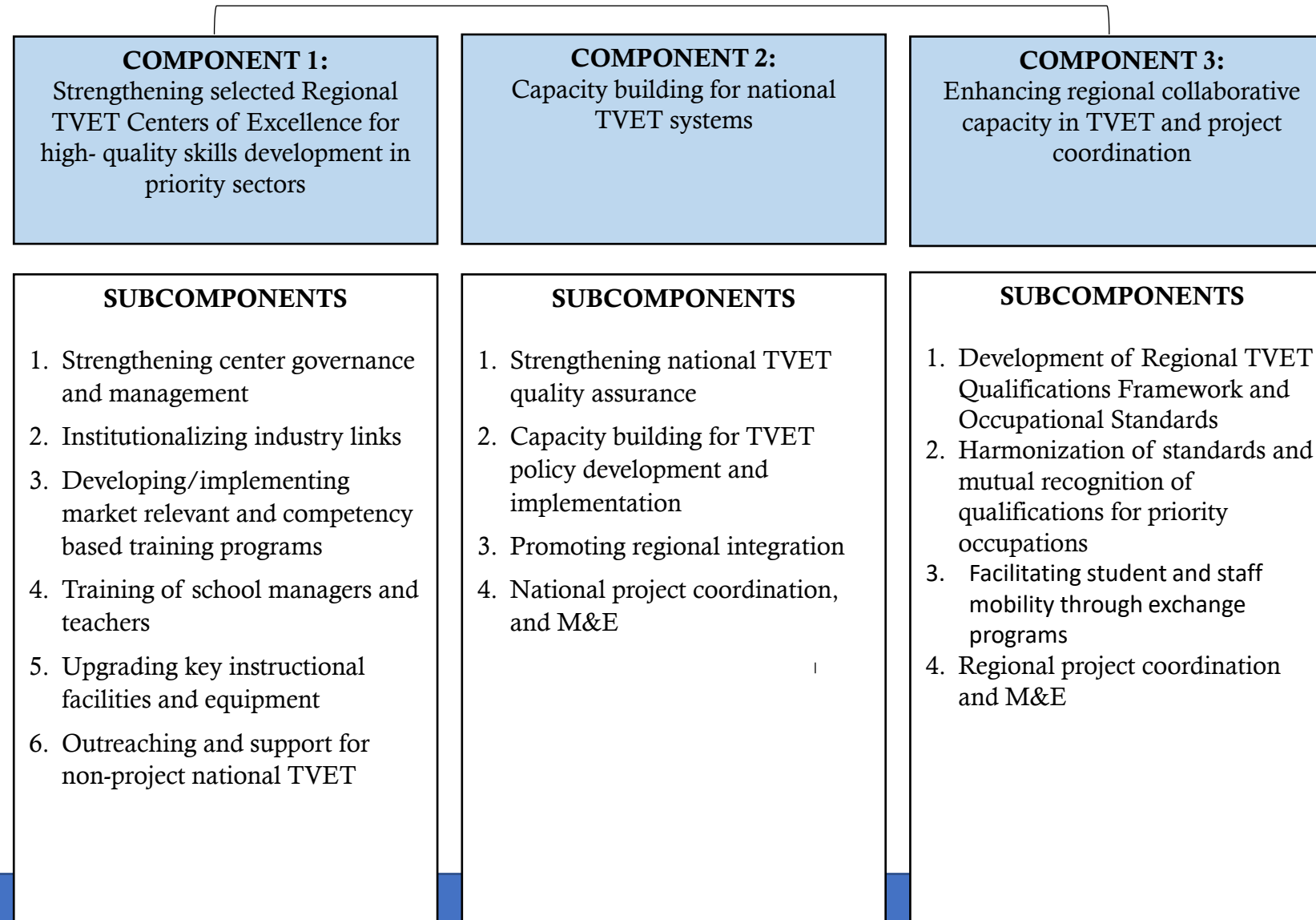
Electrical electronics



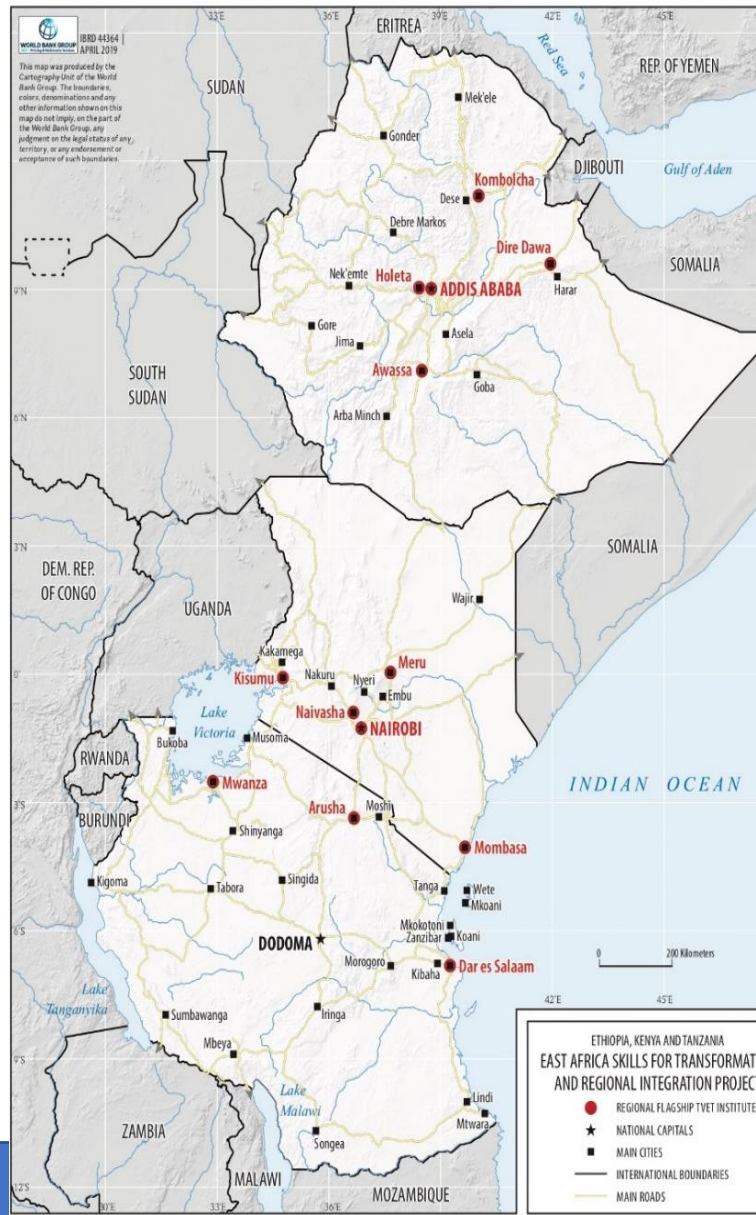
Leather & Leather products



Project Components and Subcomponents (Activities)



Selected Regional Flagship TVET Institutes (RFTIs)



| Sector | Regional Flagship TVET Institute |
|--------------------------|--|
| ICT | Dar es Salam Institute of Technology (DIT) |
| Power/energy | General Wingate Polytechnic College |
| | KenGen Geothermal Training Center |
| | Arusha Technical College |
| Transport/infrastructure | Meles Zenawi Memorial TVET Polytechnic College |
| | Ethiopia Railway Academy |
| | Kenya Coast National Polytechnic |
| | National Institute of Transport |
| | Kombolcha TVET Polytechnic College |
| | Meru National Polytechnic |
| | Kenya Institute of Highway and Building Technology |
| Manufacturing | TVET Institute |
| | Hawassa TVET Polytechnic College |
| | Kisumu National Polytechnic |
| | DIT Mwanza Campus |
| | Holeta TVET Polytechnic College |

Component 1- Sixteen (16) Regional Flagship TVET Institutions

Success stories

- Enrolment has reached 57857 from baseline 6,971 in 6 years
- Female students enrolment is 18,737 against target of 13,861
- Regional student enrolment has reached 2057 from baseline of 31
- Graduate employment in six months after graduation has reached 80% from baseline of 47% with female employment rate of 74% from baseline of 51%
- The number of demand driven programs developed are 500 from baseline of 34; whereby short-term 207 and long-term 293
- The status of construction and supply of equipment is in good progress i.e. average 85%
- The annual income generated by the RFTI has reached \$18.1 mil from baseline of \$1.83
- Number of MoUs signed have reached 337 from baseline of 33
- Tracer studies are being conducted annually in consistent manner

| DLIs/Rs | Indicators | Baseline | Actual Achievement (June 2025) | New Target (2025) | Percentage |
|---------|--|----------|--------------------------------|-------------------|------------|
| DLI2.1 | Number of student enrollments at Regional Flagship TVET Institutes (RFTIs) in Programs aimed at meeting skills needs of priority sectors | 6,971 | 57857 | 46210 | 125 |
| | Graduate Employment, six months after graduation (%age) | 47% | 80% | 87% | 92 |
| | Graduate Employment, six months after graduation for female students (%age) | 51% | 74% | 86% | 86 |
| DLI 3.1 | Number of demand-driven programs developed and accredited by national TVET accreditation agencies or certified by industries | 34 | 500 | 464 | 108 |
| DLI 3.2 | Number of teaching staff in regional flagship TVET institutes who have industrial attachment | 11 | 737 | 667 | 110 |
| DLI 3.3 | Number of teaching staff who undertake exchanges in TVET institutes in another country | 0 | 184 | 216 | 85 |
| | Training Condition improved and key training facilities provided | 2% | 85% | 100% | 85 |
| | Income Generation by RFTIs in USD | 1830912 | 18093471.5 | 17434050 | 104 |
| DLI 3.4 | Number of MoUs signed with industries and partner institutions | 33 | 337 | 343 | 98 |
| DLI 3.5 | Tracer Study Conducted Annually | 0 | 16 | 16 | 100 |
| | Student to teacher ratio | 28 | 24 | 23 | 96 |

Agriculture/Agro-processing

Some of the Demand Driven Programs Developed in collaboration with Industries

Energy

| No. | Names of programs | Certificate/Level | Degree |
|-----|---|-------------------|----------------|
| 1 | Fruit and Vegetable processing | Level I-IV | |
| 2 | Food Processing Operations | Level I-IV | |
| 3 | Dairy Products Processing | Level I-IV | |
| 4 | Meat and Meats Product Processing | Level I-IV | |
| 5 | Animal Health | Level I-IV | |
| 6 | Animal Production | Level I-V | |
| 7 | Crop Production | Level I-V | |
| 8 | Natural Resources Conservation | Level I-V | |
| 9 | Agricultural Machinery and Equipment Operations | Level I-V | |
| 10 | ICT | Level I-V | |
| 11 | Building Electrical Installation | Level I-V | |
| 12 | Plant Production Technology | | Degree Program |
| 13 | Animal Production Technology | | Degree Program |
| 14 | Dairy Product Processing Technology | | Degree Program |
| 15 | Fruit and Vegetable Processing Technology | | Degree Program |
| 16 | Meat Product Processing Technology | | Degree Program |

| S.N | Names of the Programs | Level | Remark |
|-----|---|-------------|------------|
| 1 | Culinary Arts | BA Degree | Long Term |
| 2 | Hotel Management | BA Degree | Long Term |
| 3 | Tourism Management | BA Degree | Long Term |
| 4 | Event Management | BA Degree | Long Term |
| 5 | Hotel Management | Certificate | Short Term |
| 6 | Hotel Supervision Management | Certificate | Short Term |
| 7 | Culinary Leadership Development | Certificate | Short Term |
| 8 | Hospitality Customer Service | Certificate | Short Term |
| 9 | Domestic Work (Housekeeping, Nany Food Preparation) | Certificate | Short Term |
| 10 | Ethiopian National Food Preparation | Certificate | Short Term |
| 11 | Hotel Software | Certificate | Short Term |
| 12 | Computer Literacy for Hospitality Experts | Certificate | Short Term |
| 13 | Culinary Arts (Level 1 - 5) | Level | Long Term |
| 14 | Pastry and Bakery (Level 1 - 4) | Level | Long Term |
| 15 | Food and Beverage Service (Level 1 - 4) | Level | Long Term |
| 16 | Food and Beverage Control (Level 2 - 4) | Level | Long Term |
| 17 | Front Office Service (Level 1 - 4) | Level | Long Term |
| 18 | Tour Guide Service (Level 1 - 5) | Level | Long Term |
| 19 | Tour Operation Service (Level 1 - 4) | Level | Long Term |
| 20 | Housekeeping and Laundry Service (Level 1 - 4) | Level | Long Term |

| No. | Names of Programs | Certificate/Diploma/Degree/ Masters/PhD |
|-----|--|--|
| 1 | Renewable Energy Engineering | Degree |
| 2 | Electrical and Automation Engineering | Degree |
| 3 | Mechanical Engineering | Degree |
| 4 | Electrical and Solar Energy Engineering | Diploma |
| 5 | Electrical and Wind Energy Engineering | Diploma |
| 6 | Electrical and Hydropower Engineering | Diploma |
| 7 | Mechanical and Bio-Energy Engineering | Diploma |
| 8 | Instrumentation Engineering | Diploma |
| 9 | Solar Energy | Certificate – (Long-term) |
| 10 | Bio Energy | Certificate –(Long-term) |
| 11 | Wind Energy | Certificate – (Long-term) |
| 12 | Hydropower Plant Operation and Maintenance | Certificate – (Long-term) |
| 13 | PLCs for Hydropower Engineers | Certificate – (Short-term) |
| 14 | Environment, Health and Safety | Certificate – (Short-term) |
| 15 | Micro Hydropower Plant Operations, Services and Maintenances | Certificate – (Short-term) |
| 16 | Electric Power Transmission and Distribution | Certificate – (Short-term) |
| 17 | Solar PV Master Class (Solar PV Systems Design, Installation, Service and Maintenance) | Certificate – (Short-term) |
| 18 | Refrigeration and Air Conditioning | Certificate – (Short-term) |
| 19 | Energy Efficiency and Auditing | Certificate – (Short-term) |
| 20 | Wind Turbine Installation and Maintenance for Beginners | Certificate – (Short-term) |
| 21 | Stand Alone PV Systems for Professionals | Certificate – (Short-term) |
| 22 | Design, Construction and Maintenance of the Fixed dome Biogas Plant for Beginners | Certificate – (Short-term) |
| 23 | Installation and Maintenance of Electrical System for Beginners | Certificate – (Short-term) |
| 24 | Hydropower Plant Condition Monitoring and Diagnostic for Professionals | Certificate – (Short-term) |
| 25 | Hydropower Plant Operation, Service and Maintenance | Certificate – (Short-term) |
| 26 | Stand Alone Solar PV System Installation and Maintenance | Certificate – (Short-term) |
| 27 | Solar PV System for Trainers | Certificate – (Short-term) |

Manufacturing

| S.no | Name of programs | Short-term/ Long-term | Certificate/Diploma /Degree/Masters/Ph D |
|------|---|--------------------------|--|
| | Manufacturing(Precision tools and Die making) | | |
| 1. | Welding Technology One | Short-term | Certificate |
| 2. | Hydraulic and Pneumatic operation | Short-term | Certificate |
| 3. | Maintenance of Machinery | Short-term | Certificate |
| 4. | Grinding Operation | Short-term | Certificate |
| 5. | Lathe Machine Operation | Short-term | Certificate |
| 6. | Welding Technology Two | Short-term | Certificate |
| 7. | Metal Forging | Short-term | Certificate |
| 8. | Bulk Heat Treatment Technology for Steel Products | Short-term | Certificate |
| 9. | Catia/CAD software | Short-term | Certificate |
| 10 | CAM Soft ware | Short-term | Certificate |
| 11 | Heat treatment of Metals | Short-term | Certificate |
| 12 | Shaper Operation | Short-term | Certificate |
| 13 | Milling Machine Operation | Short-term | Certificate |
| 14 | CNC Lethe Machine Programming and Operation | Short-term | Certificate |
| 15 | Metal Testing | Short-term | Certificate |
| 16 | Metal Casting | Short-term | Certificate |
| 17 | MMA Welding | Short-term | Certificate |
| 18 | TIG Welding | Short-term | Certificate |

| | Leather and Leather products technology | | |
|----|---|------------|-------------|
| 1. | Creative Product Design for Footwear | Short-term | Certificate |
| 2. | Creative Product Design for Leather Goods | Short-term | Certificate |
| 3. | Leather Garment Design and Pattern Making | Short-term | Certificate |
| 4. | Basic Shoe Making | Short-term | Certificate |
| 5. | Footwear Design and Pattern Making | Short-term | Certificate |
| 6. | Leather goods Design and Pattern Making | Short-term | Certificate |
| 7. | Leather products sewing | Short-term | Certificate |
| 8. | Basic Leather products manufacturing | Short-term | Certificate |
| 9. | TTLM for Leather Garment Design and Pattern Making | Short-term | Certificate |
| 10 | TTLM for Basic Shoe Making | Short-term | Certificate |
| 11 | TTLM for Footwear Design and Pattern Making | Short-term | Certificate |
| 12 | TTLM for Leather goods Design and Pattern Making | Short-term | Certificate |
| 13 | TTLM for Leather products sewing | Short-term | Certificate |
| 14 | TTLM for Basic Leather products manufacturing | Short-term | Certificate |
| 15 | Fashion modeling | Short-term | Certificate |
| 16 | Leather and Leather Products Technology (Regular) | Long-term | Degree |
| 17 | Leather and Leather Products Technology (Summer) | Long-term | Degree |

Energy

| No. | Course Name | Level | Qualification | Duration |
|-----|--|-------|---------------|-----------|
| 1. | Power plant Operations and Maintenance | 6 | Diploma | 2.5 years |
| 2 | Geology Technology | 6 | Diploma | 2.5 years |
| 3 | Geothermal Geochemistry Technology | 6 | Diploma | 2.5 years |
| 4 | Applied Geophysics Technology | 6 | Diploma | 2.5 years |
| 5 | Steam Systems Technology | 6 | Diploma | 2.5 years |
| 6 | Reservoir Monitoring Technology | 6 | Diploma | 2.5 years |
| 7 | Energy Project Management | 6 | Diploma | 2.5 years |

| No. | Course Name | Qualification | Duration |
|-----|--|---------------------------|----------|
| 1. | Power system control operation & SCADA System for Substation | Professional short course | 5 days |
| 2 | Switching itching Operation Procedures for Transmission Substation | Professional short course | 5 days |
| 3 | High Voltage Power Cables Termination and Jointing | Professional short course | 5 days |
| 4 | Grid Power System Operation | Professional short course | 5 days |
| 5 | Gas Turbine & Engine Steam Turbine | Professional short course | 5 days |
| 6 | Geothermal engineering | Professional short course | 18 days |
| 7 | Geothermal Geoscience | Professional short course | 21 days |
| 8 | Environmental and social analysis | Professional short course | 15 days |
| 9 | Certificate in Power Systems Planning | Professional short course | 21 days |
| 10 | Corporate Administrative Management | Professional short course | 21 days |
| 11 | Strategic Energy Contract Management | Professional short course | 21 days |
| 12 | Environmental Impact Studies | Professional short course | 21 days |
| 13 | Intermediate Electrical Operations safety Training | Professional short course | 21 days |
| 14 | Procurement and Materials Management | Professional short course | 21 days |
| 15 | Geothermal Power Generation | Professional short course | 5 days |
| 16 | Coal Fired Generation Plants | Professional short course | 5 days |
| 17 | Diesel Engines Generation Plants | Professional short course | 5 days |

| | Names of Programs | Certificate/Diploma/Degree/Masters/PhD | Long/Short |
|----|--|--|------------|
| 1. | Aviation Maintenance Engineering | NTA Level 4 to 6 (Diploma) | Long |
| 2 | Automobile Engineering and Locomotive Technology | NTA Level 4 to 6 (Diploma) | Long |
| 3 | Civil and Railway Engineering | NTA Level 4 to 6 (Diploma) | Long |
| 4 | Civil and Railway Engineering | NTA Level 7 to 8 (Degree) | Long |
| 5 | Civil and Transportation Engineering | NTA Level 4 to 6 (Diploma) | Long |
| 6 | Electrical and Railway Electrification Engineering | NTA Level 7 to 8 (Degree) | Long |
| 7 | Electrical Engineering with Railway Electrification | NTA Level 4 to 6 (Diploma) | Long |
| 8 | Mechanical Engineering with Railway Vehicle Technology | NTA Level 4 to 6 (Diploma) | Long |
| 9 | Mechanical Engineering and Transportation Machinery | NTA Level 9 (Masters) | Long |
| 10 | Naval Architecture and Marine Engineering | NTA Level 7 to 8 (Degree) | Long |
| 11 | Road and Railway Transport logistics Management | NTA Level 7 to 8 (Degree) | Long |
| 12 | Road and Railway Transport logistics Operation | NTA Level 4 to 6 (Diploma) | Long |
| 13 | Shipbuilding and Repair | NTA Level 4 to 6 (Diploma) | Long |
| 14 | Shipping and Port Logistics Management | NTA Level 7 to 8 (Degree) | Long |
| 15 | Shipping and Port Logistics Operation | NTA Level 4 to 6 (Diploma) | Long |
| 16 | Telecommunication and Railway Signaling Engineering | NTA Level 7 to 8 (Degree) | Long |
| 17 | Telecommunications Engineering with Railway Signaling | NTA Level 4 to 6 (Diploma) | Long |
| 18 | Airline Customer Service | Professional Certificate | Short |
| 19 | Airline Marketing | Professional Certificate | Short |
| 20 | Airport Operations Fundamentals | Professional Certificate | Short |
| 21 | Airport Vehicle Driving and Operations. | Professional Certificate | Short |
| 22 | Communicative English Language Course | Professional Certificate | Short |
| 23 | Competence Based Learning Course | Professional Certificate | Short |
| 24 | Customer Service for Road and Railway Passenger Cabin Crew | Professional Certificate | Short |
| 25 | Global Distribution Systems Fares and Ticketing-Amadeus | Professional Certificate | Short |
| 26 | International Shipping Practicing Certificate | Professional Certificate | Short |
| 27 | Road and Rail Cabin Crew Customer Care Services | Professional Certificate | Short |
| 28 | Transport Officers Course | Professional Certificate | Short |

Component 2-Achievements at National Levels (Eth,Ke&Tz)

| DLIs/Rs | Indicators | Baseline Target | Actual Achievement | New Target (2025) | Percentage achievement |
|---------|---|-----------------|--------------------|-------------------|------------------------|
| DLI 4.1 | Occupational standards in the EASTRIP priority sectors developed or updated | 0 | 105 | 99 | 106% |
| DLI 5.1 | Model curricula with modern IT in EASTRIP priority program developed or reviewed | 0 | 270 | 202 | 134% |
| | National TVET forums and Dissemination workshops organised | 0 | 9 | 9 | 100% |
| DLI 6.1 | Mutual recognition of qualifications with other countries agreed | 0 | 204 | 176 | 116% |
| DLI 6.2 | Guideline on how to facilitate the regional students' enrollment in EASTRIP developed | 0 | 3 | 3 | 100% |
| DLI 7.1 | Developing sustainable TVET financing strategy (ET); Establishing a national inter-institutional collaboration framework for TVET (KE); Operationalizing National Qualifications Framework (TZ) | 0 | 3 | 3 | 100% |
| DLI 7.2 | Establishment of a TVET quality assurance agency (ET); Development of a sustainable national financing strategy for TVET (KE); Development of a sustainable national financing strategy for TVET (TZ) | 0 | 3 | 3 | 100% |
| DLI 7.3 | Conducting national TVET skills mapping (KE) | 0 | 0 | 1 | 100% |
| DLI 7.4 | Developing a policy for regional TVET integration (KE) | 0 | 1 | 1 | 100% |
| | Skills Competition | 0 | 7 | 15 | 47% |

Success stories

- Occupational standards which were developed across three countries are 105 from baseline of 0
- The curricula revised/developed are 270 from baseline of 0
- 204 TVET qualifications are mutually/regional recognized laying strong foundation for smooth mobility of certified and skilled people in the region
- All three countries have developed TVET financing strategy and kick-started implementation
- Ethiopia has established TVET quality assurance organization (ETA) and independent Occupational competency assessment and certification bodies
- Kenya is currently carrying our skills mapping
- Tanzania has developed national strategic plan for TVET development

Component 3- Achievements by Regional Component (RFU)

Success stories

- Harmonized Regional TVET Qualifications Framework for Ethiopia, Kenya and Tanzania (RTQF-EKT) was developed and adopted by the countries and implementation is in progress
- Forty-four (44) Occupational Standards were harmonized and they are being implemented to inform curriculum review and development
- Regional Framework for Occupational Competency Assessment and Certification was developed and adopted for implementation
- Regional Policy Framework for TVET Integration was developed and adopted
- Sensitization and dissemination of the regional documents is an ongoing process
- Successfully facilitated the independent verification of DLIs/Rs of NPCUs and RFTIs in 5 consecutive rounds

Cont...

- Successfully coordinated independent Beneficiary Satisfaction Survey in 4 consecutive rounds
- Implementation Strategy for Regional Student Enrolment and Staff Exchange among RFTIs was developed and implemented
- Technical Support was provided to NPCUs and RFTIs in development of guidelines for staff and student mobilities
- Technical Support was provided NPCU Tanzania to develop TVET Financing Strategy for Tanzania
- Technical support was given to three countries in area of construction in order to fill the capacity gap of project implementing teams
- Intensive capacity building trainings was provided to NPCU and RFTI PIU staff; more than 82 staff were benefited
- Provided capacity building trainings to more than 160 TVET teachers and management in partnership with Guangzhou Technician College (GTC), China

Cont....

- Conducted Special Leadership and Management Training for Vocational Managers in three countries , Ethiopia, Kenya and Tanzania in collaboration with Guangzhou Technician College
- Managed the selection of three cohorts (57 students) of EASTRIP-China TVET Scholarship and made selection of 20 trainers for 4th cohort.
- Developed EASTRIP an online-real time project monitoring system including Grievance Redress Mechanism (GRM)
- Conducted Joint IUCEA-World Bank-NPCU onsite project monitoring & support missions
- Conducted 9 TAMs and RSC meetings successfully
- Regional Strategic Framework for Green TVET is being developed to inform Green Transition by RFTIs.

Conclusion

Inconclusion ;

All project PDOIs are achieved exceeding the target

- ✓ Number of student enrollments at RFTIs reached 57,857 from baseline of 6,971
- ✓ Employment of graduate in six months from their graduation is currently 79% from baseline of 47%
- ✓ 500 demand driven programs are developed from the baseline of 34
- ✓ More than 271 qualifications are mutually or regionally recognized ; paying a way for regional integration through mobility of workforce
- ✓ Beneficiary Satisfaction survey indicated that beneficiaries' satisfaction has reached 87% from baseline of 61%

**Some photos of the new
infrastructure**



KISUMU NP Teaching Factory building built by EASTRIP



Dar Es Salaam Institute of Technology-RAFIC

Center of
excellence in ICT





Dire Dawa PTC



18 March 2025

10 February 2025

DIT Mwanza

Thank you for Your Attention