Unitar Online Catalogue

CIFAL Málaga - STEM-TVET Training Series (Microcredential)

People

Deadline: 1 Jun 2027

Type:	Course
Location:	Doha, Qatar
Date:	17 Sep 2026 to 17 Jun 2027
Duration:	8 Hours
Thematic Area:	Cross Cutting: Learning, Capacity Development and Leadership, , Gender equality and social inclusion
Website:	https://www.cifalmalaga.org
Price:	$0.00
Event Focal Point Email:	info@cifalmalaga.org
Partnership:	University of Doha for Science and Technology

BACKGROUND

Technical and Vocational Education and Training (TVET) plays an important role in preparing learners with the knowledge, technical skills and competencies required to respond to evolving workforce needs and global challenges. The integration of Science, Technology, Engineering and Mathematics (STEM) into TVET provides opportunities to strengthen problem-solving, innovation, digital skills and the connection between education and labour market demands. The

STEM-TVET Training Series is a microcredential programme developed by CIFAL Malaga and the University of Doha for Science and Technology (UDST) to strengthen faculty capacity in STEM-TVET education. The programme addresses key dimensions including evidence-based teaching, technology integration, sustainability, assessment, inclusion and the relevance of STEM-TVET to Qatar's development context.

EVENT OBJECTIVES

To strengthen UDST faculty capacity to deliver inclusive, evidence-based and technology-enhanced STEM-TVET education that integrates sustainability and responds to workforce needs.

LEARNING OBJECTIVES

By the end of the training series, participants will be able to:

- Incorporate sustainability and the UN Sustainable Development Goals into STEM-TVET teaching practice.
- Explain the importance of STEM-TVET education in addressing workforce needs and global challenges.
- Describe the relevance of STEM-TVET to the Fourth Industrial Revolution and Qatar's National Vision 2030.
- Apply active, problem-based and deep learning strategies within STEM-TVET contexts.
- Integrate educational technology into lesson planning using the TPACK and SAMR models.
- Develop competency-based assessments tailored to practical skills and inclusive learning environments.
- Apply the principles of Universal Design for Learning (UDL) to create inclusive learning environments.
- Foster real-world problem-solving among students.
- Complete a final assessment demonstrating mastery of the instructional strategies covered.

CONTENT AND STRUCTURE

Session 1 – Foundations of STEM-TVET Education Introduction to STEM and TVET: definitions, overlaps and distinctions; relevance to workforce demands, the Fourth Industrial Revolution and Qatar’s development context.

Session 2 – Evidence-Based Teaching Strategies for STEM-TVET Education Evidence-based instructional approaches and active learning strategies adapted to STEM-TVET environments.

Session 3 – Technology Integration and Sustainability in STEM-TVET Education TPACK and SAMR models for technology integration; tailoring learning experiences through technology; and embedding sustainability principles into curricula.

Session 4 – Engagement, Assessment and Inclusion in STEM-TVET Education Formative and summative assessment approaches; competency-based assessment for practical skills and critical thinking; and Universal Design for Learning (UDL) to support diversity and inclusive learning.

METHODOLOGY

The training series will be delivered through interactive, face-to-face, two-hour courses designed to provide flexibility and practical application for UDST faculty. The methodology combines presentations, hands-on activities, case studies and real-world scenarios, and collaborative design sessions. The approach emphasizes active participation and the practical application of instructional strategies within STEM-TVET teaching contexts.

TARGETED AUDIENCE

Faculty members from all subject areas at the University of Doha for Science and Technology (UDST), Qatar.

ADDITIONAL INFORMATION

No further information to add.