

## **Fit for Industry 4.0 Innovative Learning and Teaching for Industry 4.0**

Digitalization is an important issue in industry and its applications, e.g. in the form of Industry 4.0, exerts a lot of impact on the work, work organization and requirements for the workers. One of the main questions under discussion is: How should students be trained in TVET to make them fit for Industry 4.0? The first answer to this question is that all TVET teachers and trainers have to be updated starting from this area.

In the context of the ASEAN Work Plan on Education 2016 – 2020 the “advancement of quality TVET transformation” and “regional quality assurance and recognition” are priority areas of cooperation. In line with those events, policy makers from Southeast Asia in cooperation with GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit) have taken various initiatives to develop regional quality frameworks and guidelines to promote the quality assurance of TVET and lay the foundations for the mutual recognition of qualifications and skills in the ASEAN region.

At the national level, the quality of TVET has remained high on the agenda of ASEAN member states (AMS). Governments have devoted considerable efforts and resources to advance the quality assurance of their TVET systems. The rapid changes in technology as there are digitalization is going on and related transformations of the world of work promise to raise the stakes for TVET quality. In response to these dynamic, TVET centers in the ASEAN countries have been working continuously to develop and improve the quality of their training delivery in order to adapt it to the changing labour market demands. The development of quality at this level requires vigorous engagement and strong commitment of the different stakeholders. Teaching staff, content and methods of teaching and learning are among the most important factors influencing the extent to which TVET quality is achieved. Continuous work on quality at TVET centers in the context of latest technology as digitalization is imperative.

With support from the RECOTVET programme (Regional Cooperation Programme to Improve the Quality and Labour Market Orientation of TVET), the ASEAN members have identified five state-of-the-art in-service training modules that are high on the agenda for all AMS in the era of industrial change. The training modules have been designed to support TVET trainers, lecturers and instructors in the field of digitalization through innovative teaching and learning, quality assurance and quality development in TVET as well as to maximize the competence of TVET managers of TVET institutions to keep up with the changing world.

After the training in 2020, around 400 TVET teachers and trainers in the ASEAN region will have become multipliers and TVET training institutions in Brunei, Cambodia, Lao PDR, Indonesia, Myanmar, Philippines, Thailand and Vietnam will have incorporated the in-service training modules in their TVET system as well as provided training on the developed modules effectively at the national level.

The whole process of the identification of the training needs, the design of the training concepts and the implementation process was and is supported by the Steinbeis Transfer Centre InnoVET.

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