

E-FORUM: MANAGING PANDEMIC CHALLENGES AND OPPORTUNITIES OF TVET IN THE ERA OF DIGITALISATION

IN CONJUNCTION WITH THE 32ND SEAMEO VECTECH GOVERNING BOARD MEETING



28 OCT
THURSDAY



9.00AM - 5.00PM
BRUNEI TIME (GMT +8)



VIRTUAL
VIA ZOOM & YOUTUBE



SEAMEO VECTECH

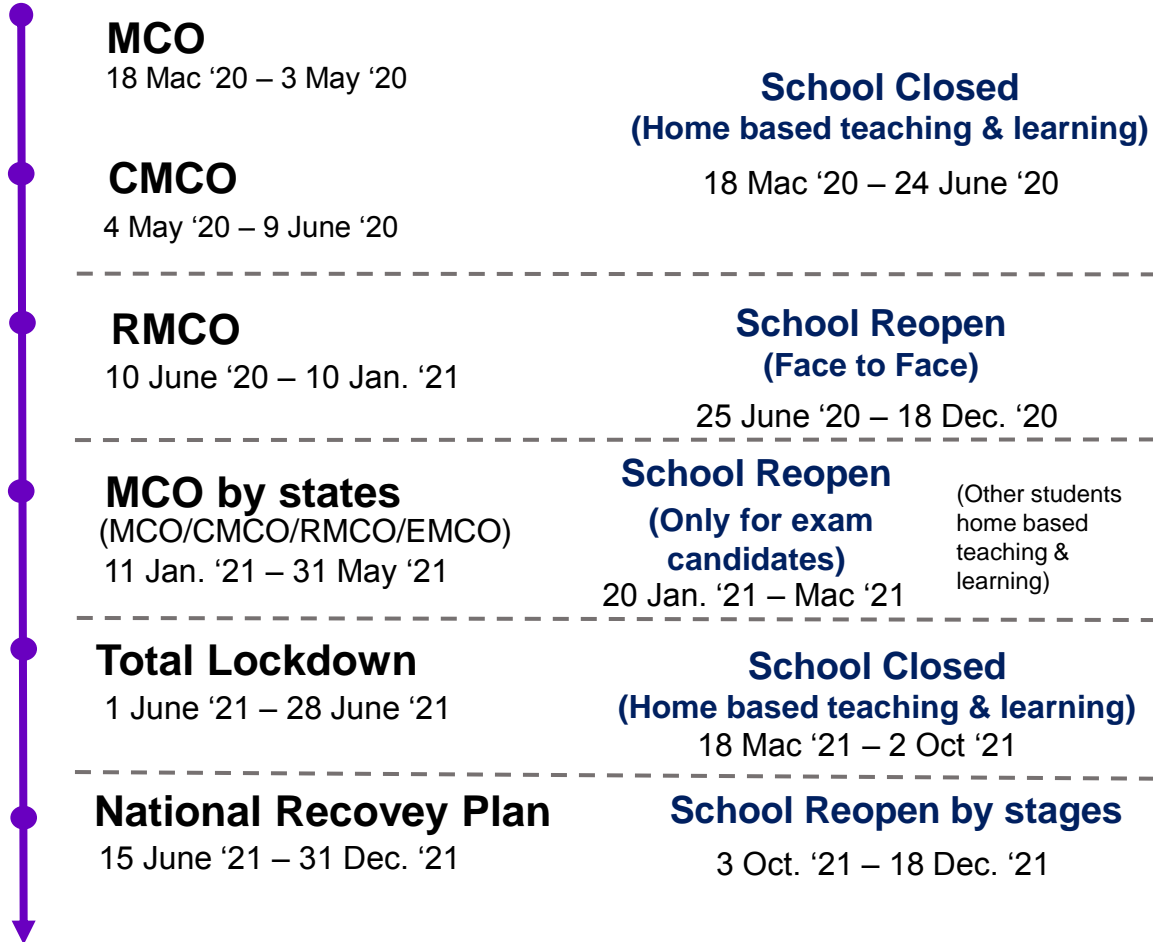
"Preparing TVET for Industry 4.0"

Malaysia Forging Ahead: Overcoming Covid-19 and Embracing Digitalization in TVET

**By Hajah Zanariah binti Haji Ahmad,
Director,
TVET Division Ministry of Education Malaysia**

Setting in Malaysia

Action Taken During Pandemic



TVET Competency

70% Practical



30% Theory

Manage the Continuity of TVET

Curriculum Alignment
30% Theory Conducted Online

Enhanced Digital Learning
(Visual Workshop, Online Classes, Video Simulation, Online Presentation)

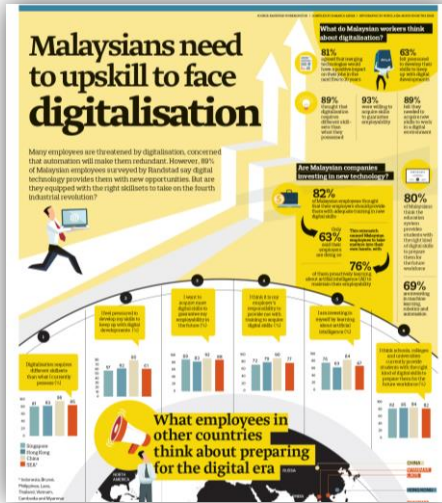
Revised assessment of
On-The-Job Training Method

Note: MCO – Movement Control Order; CMCO – Conditional Movement Control Order; RMCO – Recovery Movement Control Order; EMCO – Enhancement Movement Control Order)

Improve Digital Skills

The Opportunities

Easy Access to Source of Knowledge



Opportunities Taken by MoE and Government of Malaysia



Participate in International Competition and Conference Made Easier

Provide Gadget and Internet Data for Students



Digital Trend

1 Virtual Workshop/Lab

- DELIMa
- DidikTV
- EduWebTV



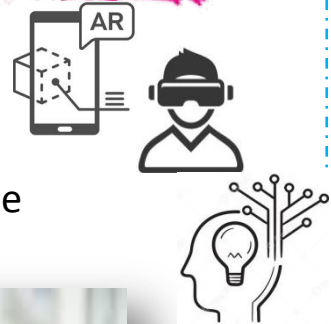
2 On The Job Training Alternative Approach

- Problem based project
- Topical studies
- Project based
- Research project



3 Modern Technology

- Augmented reality
- Virtual reality
- Artificial Intelligence





Government Initiative



MINISTRY OF EDUCATION MALAYSIA



- Creating a TVET Database
- Enhancing Quality Programmes
- Promoting the TVET Brand
- Revamping the TVET Governance System
- Addressing Overlap in TVET Government
- Strengthening TVET through Digital Learning**
- Enhancing TVET Program

12th Malaysia Plan

Initiative by MoE

Digital Education Policy

Ensure the progress of digital education as we move towards IR 4.0



SEAMEO VOTTECH
"Preparing TVET for Industry 4.0"



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Strategies to improve TVET



Enhancing TVET Programmes

- > The Centres of Excellence and Centres of Technology will be expanded to spur innovation and knowledge creation as well as enhance technical skills among students.
- > The Teaching Factory model that provides a real production or manufacturing environment will be rolled out to more TVET institutions to enable students to use industry equipment in campuses.
- > Industry within the proximity of TVET institutions will be leveraged to provide students with better exposure to the latest technology as well as industrial experience.



Strengthening TVET through Digital Learning

- > Emerging technologies such as VR, AR and AI will be leveraged to complement hands-on teaching activities, research and development conducted in laboratories and workshops.
- > Pedagogies that embed these technologies will be incorporated in the TVET curriculum.
- > Collaboration between TVET institutions and industry will be intensified to provide more opportunities for instructors and students to apply the latest technologies as well as experience actual industry operations and challenges.



Addressing Overlap in TVET Governance

- > TVET institutions are currently governed by different ministries, state agencies and private organisations. Efforts will be undertaken to align the diverse systems of TVET institutions to ensure students' pathways to higher education and future careers are streamlined.
- > The TVET governance will also be revamped by coordinating and consolidating various TVET governance systems, promoting the TVET brand, enhancing quality programmes and creating a TVET database to meet industry demand.



Revamping the TVET Governance Systems

- > A TVET ecosystem framework will be formulated to revamp the current fragmented TVET governance while safeguarding the interests of various stakeholders.
- > Under this framework, the establishment of the National TVET

Council will optimise the utilisation of resources, minimise the duplication of programmes, and coordinate and consolidate various TVET governing systems.

- > The synchronisation of TVET programmes will create a stronger TVET image.
- > The Buddy Programme, which leverages successful TVET alumni, will be introduced to motivate and guide TVET students and graduates in their careers, education and businesses.



Promoting the TVET Brand

- > A single TVET brand representing both public and private TVET providers will be introduced.



Enhancing Quality Programmes

- > The quality of programmes at all TVET institutions will be enhanced through accreditation, recognition and certification from related professional and industry lead bodies, locally and internationally.
- > Upskilling and reskilling



Creating a TVET Database

- > A TVET database will be developed to enable big data analytics to support effective policy formulation and programme development and delivery.
- > This database will be a platform to harmonise, centralise and integrate all data pertaining to TVET pathways, jobs as well as job matching.
- > This database can be accessed by ministries, industries, instructors, prospective trainees and the public based on compliance with classified data security.



Source: The 12th Malaysia Plan (2021-2025) report, Chapter 10

Note: * The Malaysia Board of Technologists

TheStar graphics

Thank You !