



STEM.org.my

TM FutureSkills STEM Certification

Comprehensive industry backed certification offered together with partner schools worldwide

Highlights

Certification + Competition

TM FutureSkills Training & Certification

MakeX Robotic Competition



Certification program by

Telekom Malaysia managed by

Creative Minds



National/International Competition by

MakeBlock Inc. organized by

Creative Minds (regional)

What is **Future Skills?**

Earn an industry-recognized credential

TM Future Skills validates student Science, Technology, Engineering and Maths (STEM) expertise to help students K-12 highlight in-demand skills and develop their interest in Science and Math subjects. Diverse certification program by discipline and specialty designed to empower students to meet their unique goals











Info

Telekom Malaysia Berhad (TM) launched TM FutureSkills STEM program since 2016 but not available for public enrollment until 2020.

Program Rationale



Students' Interest

To increase student interest to pursue Technology & Engineering subjects



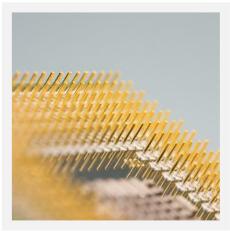
Theory vs Practical

Relating students' practical work with theory from classroom learning



Hands-On Concept

Working on handson concept work related to technology and engineering studies



Technology

Applying latest and up-to-date open-source technology in every day classroom



Tracking on STEM

We offer STEM certification tracking and database for quality and follow up programs

SCHOOL LIST (2018 – 2020)

Kuala Lumpur

SK Bandar Damansara Utama 4

SK Bandar Banting

SK Jenderam Hilir.

SK Pandan Jaya

SK Polis Depot

SK Cyberjaya

SK Sungai Binjai.

SK Sungai Merab Luar

SK Taman Midah 2

SMK Sultan Abdul Aziz Shah (Interg.)

SK Seri Setia

SMK Ampang Pecah

SMK Munshi Abdullah

SMK Pengkalan Permatang

SMK Jeram

SMK Pulau Indah

SK Kampung Batu

SK La Salle 1

SAM Bagan Terap

SMK Kiaramas

SMK Sri Hartamas

or in or i i i ar tarria

SMK Vivekananda

Negeri Sembilan

SK Si Rusa

SK Teriang

SK Senawang

SK Pusat Juasseh

SMK Juasseh

SK St. Aidan

Perak

SMK Chenderiang

SK Seri Kepayang

SMK Tambun

SABK Maahad Al-Ehya Asshariff

Kedah

SK Taman Ria

SMKA Baling

SK Ulu Sedaka

SMK Kota Kuala Muda

SK Dato Wan Mohd Seman

SK Tembak

SJKT Mahatma Gandhi Kalasai

School management will receive token of appreciation upon school level enrollment program

Melaka

SK Chabau

SK Pantai Kundor

SK Tanjung Minyak

SK Padang Temu, Padang Temu



Perlis

SK Abi

SMK Arau

SMK Dato' Jaafar Hassan

Johor

SK Kampong Pasir, Skudai SK Taman Bukit Tiram, J. Bahru SK Tanjung Puteri SMK Sungai Tiram SK LKTP Bukit Batu, Kulai SK Taman Molek SK Kota Masai 2 SJKC Ming Terk SK Parit Bilal

Kelantan

SMK Kuala Balah SK Tualang Tinggi

Terengganu

SK Pengkalan Berangan SK Kebor Besar SK Paka 3 SMK Ibrahim Fikri

Pahang

SK Tanjung Batu SK Cherating SK Merting SMK Orang Kaya Haji

Since 2018, more than 80 schools (and counting...) participate in TM FutureSkills program under Ministry of Education purview

TM FutureSkills



Certification Program

TM FutureSkills give an **education advantage** by providing **national recognized** and **industry-endorsed** evidence of mastering skills in a digital and technology knowledge.

TM Group Youtube: https://www.youtube.com/watch?v=PNm537-BtVU



TM FutureSkills is endorsed by



Jointly collaborate with





Certification will be signed by Chairman of TM, Tan Sri Mohd Bakke Salleh



Enrollment

TM FutureSkills mission statement is to enrich and increase students' interest in STEM which lead to STEM enrolments inline with Malaysia's national education policy.

Age

10 − 12 years old | 12 − 15 years old

This program is suitable for age 10 years above. It is recommended to split into two groups above to accommodate larger groups

Medium

On-site classroom | Virtual Learning

This program can be run in both on-site or virtual session

Requirement

Complete all the required task

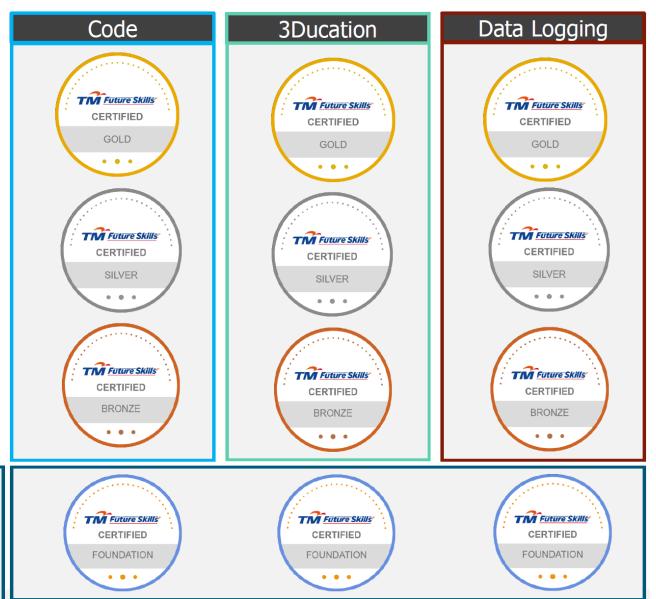
To complete the certification process, all participants are required to complete all the required task given during the workshop

Certification Path

How will we scale in the future

Digital Badge as Progress on

the 3 STEM Pillars Learning





What's Next?

How to proceed with TM FutureSkills



First step...



Confirm date & Set promotion



Fee collection by school

EXECUTION

During workshop...



Workshop with Students



Hands On task/assignment



Assessment

POST EVENT

After events...



Report to schools



Certification to students

COMPETITION

Open for all



MakeX Spark

Online Competition

Robotic Certification



Certification Cost = RM 150/person

Corporate Social Responsibility Program

80%

Cost is RM30/ person

Incentive to Schools



Number of Students and Robotic Set to School

250 students = 1 robotic set

500 students = 2 robotic sets

mBOT Purchase



mBOT Core Set = MYR 475/unit

mBOT Robotic Set

makeblock

mBot is a low cost, easy-to-run robot kit for kids to get hands-on experience about graphical programming, electronics, robotics. It is an all-inone solution for robotics learning and designed for STEM education.

STEM Certifications





Certification Cost = RM 150/person

Corporate Social Responsibility Program

80%

Cost is RM30/ person

Incentive to Students

Training in Robotic + Training in 3D Printing

Robotic Certification = RM 30

Two Certifications = RM 50

What's Next?

How to proceed with TM FutureSkills

EXECUTION POST EVENT COMPETITION PLANNING Workshop session School to enroll After events... 1 July 2021 3 – 5 working day 24 June 2021 onwards onwards

- As we grow, certification is getting more critical to ensure students are up to date with technological changes in line with their education progress
- This program offer industry-driven program together endorsed by Pusat STEM Negara to ensure Malaysia students keep track and pursue their interest in Science and Maths.
- The school role is vital to ensure this beneficial program reach students effectively and keep them competitive



Summary

Get your students the competitive advantage