MBOT
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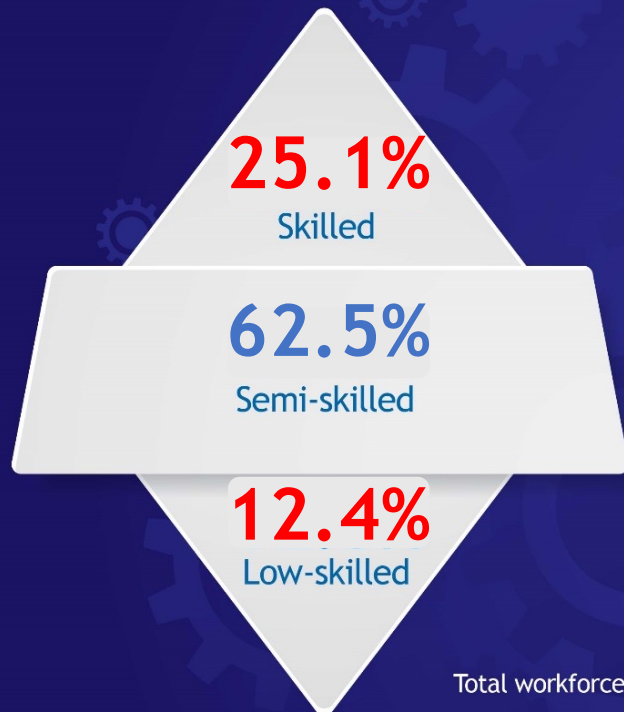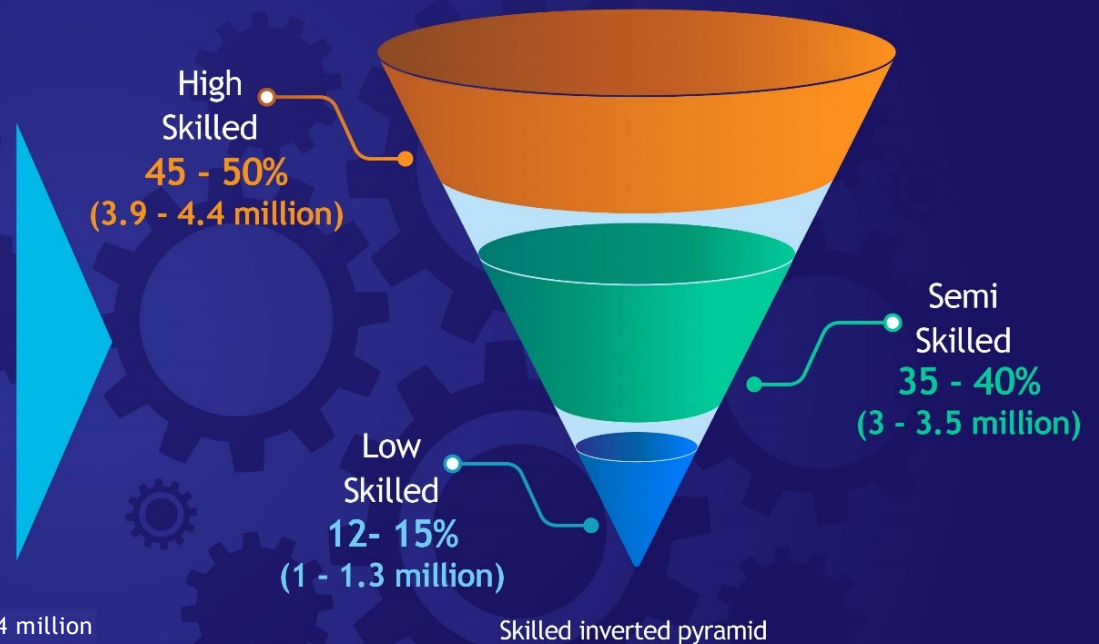MALAYSIA BOARD OF TECHNOLOGISTS

UPLIFTING TALENT THROUGH MBOT PROFESSIONAL RECOGNITION

By: Dr. Md Fauzi bin Md Ismail
MBOT Registrar

www.mbot.org.my

Malaysia needs to further increase its highly skilled talent

25.1%
Skilled

62.5%
Semi-skilled

12.4%
Low-skilled

Total workforce As of the Q1/2024 : 8.94 million
Source: DOSM

High
Skilled
45 - 50%
(3.9 - 4.4 million)

Semi
Skilled
35 - 40%
(3 - 3.5 million)

Low
Skilled
12- 15%
(1 - 1.3 million)

Skilled inverted pyramid

Malaysia has to create 2 million additional high-skilled jobs. In comparison, Singapore aims to have 1.2 million digitally skilled workers by 2025, a 55% jump from their present 2.2 million.

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Key Trends & Challenges in High Skilled Talents

Semi skilled nation

High skilled nation

Skills Mismatch
Uncompetitive Salary
Underemployment
Gig Economy & Flexible Work
Low Enrolment in STEM/TVET
Gap in Digital Skills
Reskilling Revolution
Digital Transformation
Global Talents Recruitment

Middle Income Trap

8 Key Challenges for Talents in Technology.

01 Skills mismatch

02 Uncompetitive salary

03 Under employment

04 Gap in digital skills

05 Global brain drain

06 Gig economy & flexible work

07 Digital transformation

08 Reskilling revolution

MBOT

MBOT is home for technological talents.

Diversity of members in demographic, professions, background and experiences

Experts from industries, government agencies, regulators and academia

Recognition of multi and inter-disciplinary of technology

MBOT

Passionate professional members in their field

Inclusivity in recognising Technologists/Technicians and their practice

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What do we do?

REGISTRATION

Registration of **Graduate Technologists (GT), Qualified Technicians (QT), Professional Technologists (Ts.) and Certified Technicians (Tc.)**

ACCREDITATION

MBOT is currently the professional body involved in **accrediting technology and technical programme** in various level: Bachelor Degree, Advanced Diploma, Diploma and Certificates.

LIFE-LONG LEARNING

MBOT promotes lifelong learning through the implementation of **Continuing Professional Development (CPD) through 14 activity clusters**

STAKEHOLDERS' ENGAGEMENT
Professional interactions with relevant stakeholders that can lead to productive collaborations.

STRATEGIC COLLABORATION
Working together with relevant parties in a mutually beneficial way.

INTERNATIONALIZATION
Forming a bilateral/multilateral collaboration with international bodies/ associations

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What makes MBOT **different** from other professional bodies in Malaysia?
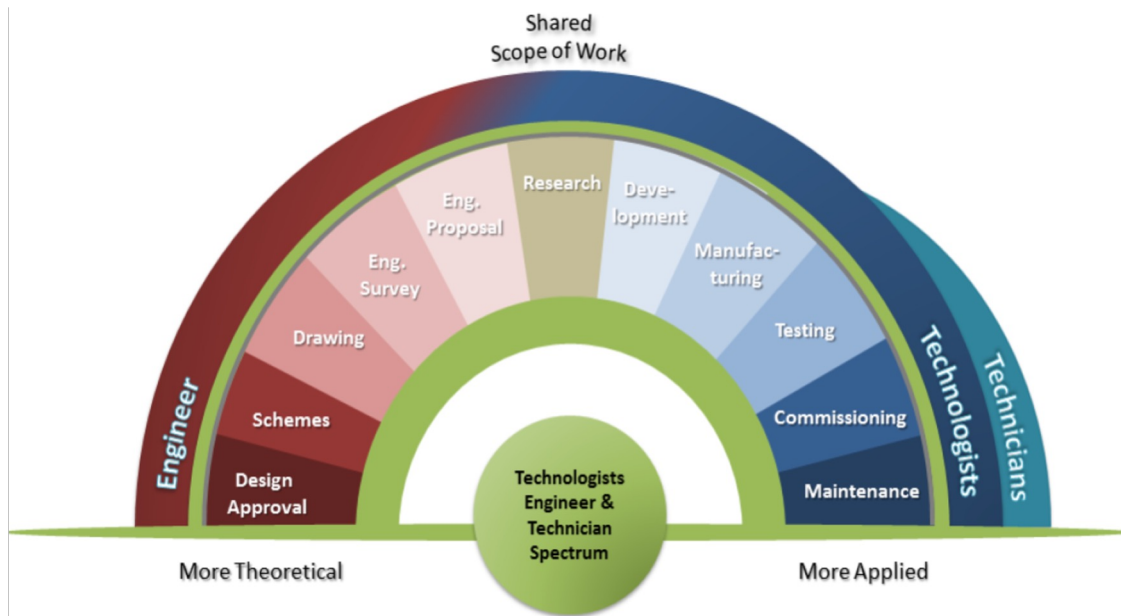
MBOT recognizes 24 Technology fields which covers wider scope than the conventional discipline-based professions. These *Technology-based Professions* are *flexible and cuts across different fields*

Technologists & Technicians Act (Act 768)

PART III

REGISTRATION OF TECHNOLOGISTS AND TECHNICIANS

Technical services and technology services

16. The Board shall determine—

(a) technical services in respect of any operation relating to product testing, product commissioning and product maintenance; and

(b) technology services in respect of any operation relating to product development, product manufacturing, product testing, product commissioning and product maintenance,

for the purpose of this Act.

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24 FIELDS OF TECHNOLOGY & TECHNICAL
RECOGNISED BY MBOT

EE — Electrical & Electronics Technology

IT — Information & Communication Technology

CM — Chemical Technology

BT — Biotechnology

BC — Building & Construction Technology

RB — Resource Based, Survey & Geomatics Technology

ME — Manufacturing & Industrial Technology

MR — Marine Technology

TB — Telecommunication & Broadcasting Technology

AF — Agro-based Technology

CS — Cyber Security Technology

TL — Transportation & Logistics Technology

MT — Material Science Technology

OG — Oil & Gas Technology

AT — Automotive Technology

AV — Aerospace & Aviation Technology

FT — Food Technology

MI — Maritime Technology

AC — Atmospheric Science & Environment Technology

GT — Green Technology

NT — Nanotechnology

NR — Nuclear & Radiological Technology

AM — Art Design & Creative Multimedia Technology

HM — Health & Medical Technology

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We have 86k members, including more than 25k Professional Technologists and Technicians

3,020

Tc. / C.Tech

CERTIFIED TECHNICIAN

Qualified Technician with practical experience as stipulated by the Board

22,854

Ts. / P.Tech

PROFESSIONAL TECHNOLOGIST

Graduate Technologist with practical experiences as stipulated by the Board

Professional Assessment

Professional Assessment

Technology & Technical Qualification Advancement

10,588

49,583

GRADUATE TECHNOLOGIST

Hold a bachelor's degree or above recognized by the Board

CERTIFICATE

QUALIFIED TECHNICIAN

Hold academic qualification of minimum Level 3 MQF to advanced Diploma recognized by the Board

Total Registration as of May 2024

86,045

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MBOT

Mapping MBOT Registrants across Malaysia's Leading Internet Service Providers

Wherever you maybe in your career, professional recognition will take your career forward

Recognition & Acceptance

Acknowledgment of achievement & competency

Lifelong Learning

Increase the capabilities and knowledge on the current field and explore on the advancement of technology & its application

Enhanced Credibility

Validate an individuals knowledge, skills, and expertise in a specific field, enhance credibility and boost professional reputations

Talent Mobility

Expand job prospects and gain access to a broader range of employment opportunities either locally or internationally

Networking & Community

Provide access to a network of professionals within industry in sharing knowledge and build valuable relationships

Increased Confidence

Boosting self-confidence, positively impact performance and interactions with clients, colleagues, and employers

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Professional recognition helps your organization to the next level
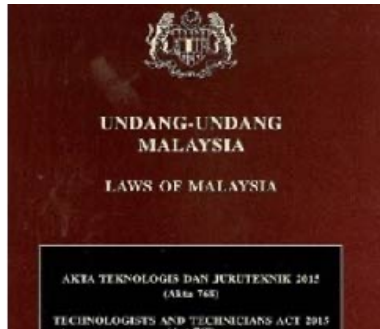
Professionals are governed by the law and ethics

Technical process quality assurance

Ensure safety to public, organization and employee

Pool of competent talent in an organization

Increase clients confidence

Validation by Professionals will Ensure Project Quality and Delivery

Professional Technologist

19. A Professional Technologist shall be entitled to—

(a) approve and certify the manner or conduct of technology services to be carried out;

☑ Product Development   ☑ Product Commissioning

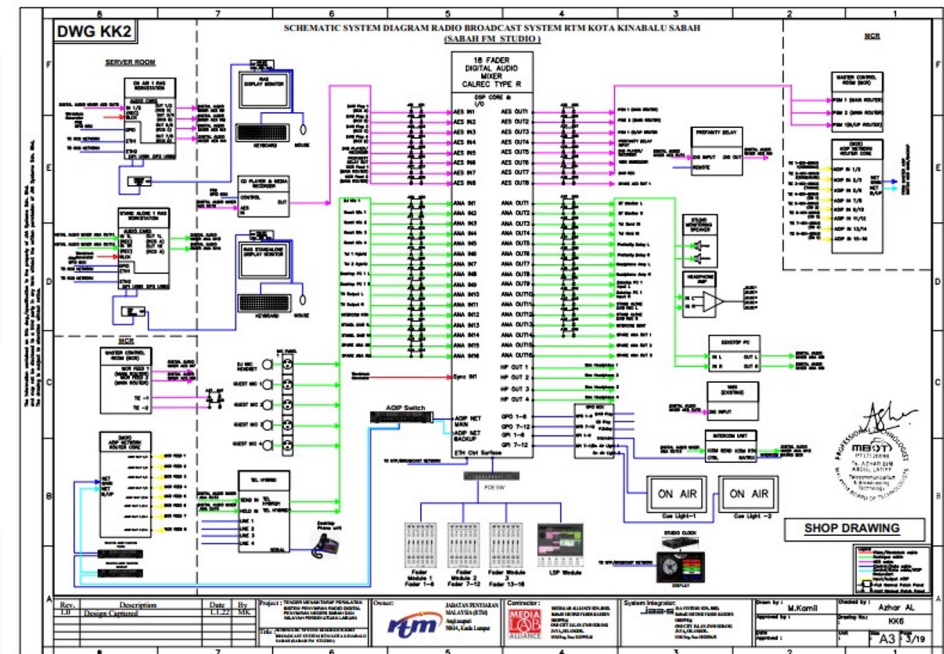☑ Product Manufacturing   ☑ Product Maintenance

☑ Product Testing

Certified Technician

20. A Certified Technician shall be entitled to—

(a) approve and certify the manner or conduct of technical services to be carried out;

☑ Product Commissioning   ☑ Product Testing

☑ Product Maintenance

MBOT Professional Acceptance in Industry/Regulator/Government

Project Requirement

Job Requirement

CPD ensures you to be proficient and competent

A1 Formal and Informal Education

A2 Congress/ Conference/ Seminar/ Symposium (Local / International)

A3 Fellowships/ Attachment/ Study Tour (including practical and skills courses)

A4 Committee or Project Member

A5 Technology and Technical Related Meetings

A6 Technical Paper Presentation at Official Function/ Seminar/ Meetings (Presenter/ Speakers)

A7 Publication Of Articles in Journal/ Chapters in Book / Technical Reports

A8 Appointed as MBOT's Assessors
• Professional Assessor Panel
• Accreditation Assessor Panel
• Accreditation visits

Types of MBOT CPD ACTIVITIES

ELIGIBLE FOR CPD POINTS

B1 Contribution for Technology and Technical Aspects Development

B2 Online Platform Related to Technical and Technology

B3 Mentoring/ Coaching/ Judges/ Consultation Related to Profession

D1 Hands-On/ Special Project & R&D Activities Related in Technical & Technology

D2 CSR Program and Relevant Voluntary Work

D3 Soft-Skills Related to Leadership and Management, Interpersonal Skills and Professional Conduct

Professional Technologist

90 points / 3 years*

Certified Technician

60 points / 3 years*

*Minimum 3 activities per year

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Community of Practice is a catalyst for industry productivity and talent development

Community of Practice (CoP)

- Technology Practitioner
- Researchers
- Academics
- Students and Learners
- Enthusiasts
- Technology Association

Activities

- Seminar
- Training
- Workshop
- Technology Updates
- Knowledge Sharing
- Networking Session

Outcomes

- Industry Guideline
- Standard
- Input for Public Policy
- Professional Development

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