



# TECHIES

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*Celebrating*

**10** YEARS  
**2015-2025**  
**A DECADE OF UPLIFTING  
TECH TALENTS**  
*Anniversary*

Special Issue



MERAKYATKAN SAINS  
MENGINSANKAN TEKNOLOGI  
MENGARUSPERDANAKAN INOVASI





Congratulations to the Malaysia Board of Technologists (MBOT) on celebrating its 10th anniversary. Over the past decade, MBOT has played a key role in raising professional standards and promoting the importance of technologists and technicians in Malaysia's growth. As Malaysia advances toward becoming a high-tech and high-income nation, MBOT must lead in nurturing a future-ready workforce - one that is skilled, ethical, and globally competitive. I also hope MBOT will expand its international recognition, embrace emerging technologies, and become a key enabler in the nation's journey towards sustainable innovation and inclusive growth."

**Yang Berhormat Tuan Chang Lih Kang**  
Minister of Science, Technology and Innovation



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# A NATIONAL HONOUR, A SHARED VISION: Leading Malaysia's Cybersecurity Frontier

*an interview with*

**YBhg. Dato' Ts. Dr Haji Amirudin  
bin Abdul Wahab**  
Chief Executive Officer, CyberSecurity Malaysia  
The Recipient of Anugerah Teknologis Negara 2024



**Dato', you've been at the forefront of cybersecurity in Malaysia for several years. Can you share some of the key moments that have shaped your journey to becoming CEO of CyberSecurity Malaysia?**

My journey to becoming CEO of CyberSecurity Malaysia cannot be defined by a single or a few key moments. Instead, it is the culmination of many significant achievements and defining experiences that have shaped my path to becoming CEO of CyberSecurity Malaysia.

Throughout this journey, I have remained anchored to our mission and vision, addressing urgent national cyber concerns and at the same time building long-term capability and capacity. Cybersecurity is not just a local challenge; it is a global one. Therefore, we must consistently expand our role onto the international stage, fostering collaboration so that nations, organisations, and individuals alike are better equipped and resilient against cyber threats.

I have dedicated myself to strengthening Malaysia's resilience and self-reliance, ensuring that our nation is capable of confronting evolving cyber risks and threats independently. Today, CyberSecurity Malaysia offers more than 40 products and services that cut across every dimension of cybersecurity. But these solutions cannot stand alone, they must be supported by a holistic approach that integrates people, processes, and technology, guided by strong leadership and continuous adaptation to the evolving threat landscape.

I am proud that CyberSecurity Malaysia is now globally recognised as the nation's reference and specialist centre for cybersecurity. This achievement, however, is not mine alone, it reflects the dedication and commitment of every member of our team. Cybersecurity is inherently a collective effort, and our greatest successes come when we move forward together.

At the same time, we do not work in isolation. Our strength lies in collaboration, with government agencies, industry players, civil society, and academia. Together, we have advanced in areas such as awareness, training, joint exercises, incident response, and threat intelligence. These partnerships are essential in building an ecosystem that is both secure and sustainable.

In today's digital landscape, where cyber threats grow increasingly sophisticated and pervasive, organisations that prioritise cybersecurity and build robust cyber programmes not only protect their assets but also inspire trust and confidence among stakeholders. And that trust, ultimately, is the cornerstone of a strong digital economy and a safer society.



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**In short, Malaysia has established itself as a global role model in cybersecurity, while continuing to strengthen its foundations to ensure long-term resilience and readiness in an ever-evolving digital landscape.**

**You were awarded the Anugerah Teknologis Negara in 2024. What does this recognition mean to you personally and professionally?**

Receiving the Anugerah Teknologis Negara in 2024 is truly a profound honour. On a personal level, it is a humbling reminder of the support, trust, and collaboration I have been blessed with throughout my journey. Professionally, this recognition strengthens my resolve to continue driving innovation, enhancing our national resilience, and safeguarding Malaysia's digital future. It is not just an award for me alone, but also a reflection of the collective dedication of my colleagues and partners who share the same vision for a safer and stronger digital nation.

**Where does Malaysia stand in terms of cybersecurity readiness and resilience compared to global standards?**

Malaysia has made significant progress in cybersecurity readiness and resilience when measured against global standards. In the ITU Global Cybersecurity Index (GCI) 2020, Malaysia was ranked fifth worldwide. In the latest GCI 2024, we advanced into Tier 1, which represents the role-modelling level of cybersecurity development. This tier reflects a

nation's strong capacity across all evaluated areas legal, technical, organisational, capacity-building, and international cooperation.

This recognition means that Malaysia is not only implementing robust measures at home but also positioning itself globally as a connector, implementer, and advocate in cyber norm-setting. Our efforts extend beyond national boundaries, championing collaboration, regional influence, inclusive governance, and technical excellence.

A closer look at the GCI 2024 findings shows that Malaysia achieved the maximum score of 20 points in all pillars except for Organisational Measures. This area, which covers coordinating institutions, policies, and strategies for managing cybercrime and developing national cybersecurity, is one we are actively addressing.

To strengthen this further, Malaysia is advancing several key initiatives, including the Cybersecurity Act, amendments to the PDPA, and the proposed Online Safety Act. At the same time, we are preparing for emerging technologies through the establishment of a National AI Office, progress in national cryptography, the

rollout of digital ID systems, and other forward-looking measures.

In short, Malaysia has established itself as a global role model in cybersecurity, while continuing to strengthen its foundations to ensure long-term resilience and readiness in an ever-evolving digital landscape.

**What role do you think public-private collaboration plays in improving national cybersecurity, and how is CyberSecurity Malaysia fostering this cooperation?**

Public-private collaboration is absolutely vital in strengthening national cybersecurity. Cyber threats are complex and constantly evolving, and no single entity - government or private sector can address them in isolation. Public-private partnerships (PPPs) bring together diverse expertise, resources, and perspectives to develop more effective solutions and initiatives in tackling these challenges.

Such collaboration facilitates continuous dialogue between stakeholders, ensuring that cybersecurity policies are balanced with the needs of digital innovation and economic growth. It also allows us to adapt more quickly to emerging threats while building trust and resilience across the ecosystem.

At CyberSecurity Malaysia, we actively foster this cooperation through initiatives such as the CyberSecurity Malaysia - Collaboration Programmes (CSM-CP), which provide a strategic platform for partnership with local industry players and government agencies. The aim is to encourage innovation and the development of homegrown cybersecurity products and services.

In addition, initiatives like CyberDSA, which feature exhibitions, forums, and specialised training programmes, serve as important avenues for capacity building and stakeholder engagement.

Together, these efforts ensure that cybersecurity is not confined to regulations and compliance, but becomes a dynamic, community driven movement anchored in transparency, innovation, and shared responsibility.

**With the rapid advancements in technology, how do you ensure that cybersecurity talents keep pace with new developments such as AI, IoT, and 5G?**

Keeping pace with rapid technological advancements such as AI, IoT, and 5G requires a strong pipeline of skilled cybersecurity professionals. At CyberSecurity Malaysia, we are deeply committed to nurturing and empowering this talent pool through a variety of initiatives.

We have launched programmes such as CyberGuru and the Global Accredited Cybersecurity Education (Global ACE) Scheme. These initiatives provide professional certifications while also fostering partnerships with educational institutions to integrate cybersecurity knowledge into academic curricula.

The Global ACE Scheme in particular offers a holistic framework for professional certification. It ensures independent and impartial assessments, sets clear competency standards for trainers, and establishes requirements for professional membership. The scheme also defines key cybersecurity domains, ensuring that talent development is structured and comprehensive.

To address emerging technologies, we have introduced specialised certifications such as the Certified Artificial Intelligence Security Professional (CAISP), which equips professionals with the expertise to manage AI-specific security risks.

Beyond Malaysia, we are also contributing to global talent development. Through the Malaysian Technical Cooperation Programme (MTCP), we have delivered cybersecurity training to participants from ASEAN countries and OIC-CERT member states, reinforcing Malaysia's role as a regional and international leader in capacity building.



Looking ahead, the establishment of the Malaysia Cyber Security Academy (MCSA) is a critical milestone. As a Technical and Vocational Education and Training (TVET) initiative, the Academy set to begin operations in the second quarter of 2025 will help address the shortage of skilled cybersecurity professionals in Malaysia. By offering specialised training and hands-on capacity building, the MCSA will play a pivotal role in strengthening our national cyber resilience and ensuring our workforce is future-ready.

**As we celebrate MBOT's 10th anniversary, what role do you think professional bodies like MBOT play in shaping the future of Malaysia's technology workforce, especially in fields like cybersecurity?**

Professional bodies like MBOT play a critical role in shaping Malaysia's technology workforce, particularly in specialised fields such as cybersecurity. By setting professional standards, ensuring skills remain relevant, and fostering continuous learning, MBOT helps build a workforce that is both future-ready and globally competitive.

MBOT also establishes the benchmarks for professionalism, integrity, and competency, ensuring that our talents are recognised not only locally but also internationally. In domains like cybersecurity, MBOT serves as a bridge between academia and industry, encouraging lifelong learning, nurturing innovation, and developing a pipeline of certified, trusted specialists. These professionals are essential to safeguarding our digital infrastructure while driving Malaysia's position as a leader in the global technology arena.

Equally important, MBOT formalises the recognition of technology professionals, elevating their status and instilling higher levels of accountability and ethical conduct. In a rapidly evolving sector like cybersecurity, this is crucial for building a workforce that is resilient, capable, and committed to national progress.



# A DECADE OF AN Incredible Journey



## Leadership Appointments

- YB Minister of Science, Technology and Innovation appointed YBhg. Tan Sri Ir. Dr. Ahmad Zaidee Laidin as President of MBOT.
- YBhg. Prof. Wan Mohammad Wan Abdullah and YBhg. Dato' Kamel Mohamad were appointed as MBOT Board Members.

Appointment  
of **New Board  
Members** for  
the 2017 - 2019  
term.



18.11.2015

25.02.2016

The official opening of the **MBOT office** marked a key milestone, providing a dedicated space to support the organisation's operations and services.



MBOT was **officially launched** by the Minister of Science, Technology and Innovation, YB Datuk Seri Panglima Wilfred Madius Tangau.

The inaugural **Technology and Technical Accreditation Summit** was held, bringing together industry experts, educators, and policymakers to discuss advancements in technology accreditation and to shape future strategies.

27.07.2017

13.04.2017

17.11.2016



Four academic programmes at Universiti Teknikal Malaysia Melaka (UTeM) have received **provisional accreditation** from MBOT.

- Sarjana Muda Teknologi Kejuruteraan Pembuatan dengan Kepujian.
- Sarjana Muda Teknologi Kejuruteraan Mekanikal dengan Kepujian.
- Sarjana Muda Teknologi Kejuruteraan Elektronik dengan Kepujian.
- Sarjana Muda Teknologi Kejuruteraan Elektrik dengan Kepujian.

14.12.2017

MBOT formally established **21 technology and technical fields**, reflecting the diverse areas within the technology sector.

2017

21.06.2018

MBOT has served as an observer at the **Seoul Accord Annual Meeting** in Cambridge, UK.

MBOT formally established **23 technology and technical fields**, reflecting the diverse areas within the technology sector.

2018



09.01.2019

The First Session of **MBOT Professional Assessment**.

#### MBOT Initiatives During the Pandemic:

- Full Digital Transition in Registration and CPD Applications.
- MBOT launched a series of webinars to engage with members, share knowledge, and promote continuous learning throughout the pandemic.

2020

25.06.2019



**The Bachelor of Technology (B.Tech)** programme was launched on June 25, 2019, at Universiti Malaysia Pahang (UMP), Gambang Campus. The programme commenced in September 2019, marking a historic initiative in enhancing the Technical and Vocational Education and Training (TVET) ecosystem in Malaysia.

13-14.  
06.2019

MBOT was recognised as a **Provisional Signatory** during Seoul Accord Annual Meeting 2019, held in Hong Kong.

MBOT recognised **24 Technology and Technical Fields**, including the newly added Health and Medical Technology field.



2021

# A DECADE OF AN Incredible Journey



07.06.2022

## MBOT Experts Network in Technology, Innovation and Cooperative Event (ENTICE 2022)

- MBOT initiated the formation of a Community of Practice (CoP)
- The MBOT Technology and Innovation Expo 2021 (MTeX'21) Awards were presented, recognising outstanding achievements in technology and innovation.
- MBOT established the Women Technologist Chapter (WTC), promoting gender diversity and empowering women in the technology sector.

03-07.  
04.2023

MBOT hosted the **Seoul Accord  
Evaluation Panel's** visit to  
Malaysia, reinforcing its  
commitment to international  
accreditation standards.



SEOUL ACCORD

The MBOT Borneo Symposium, launched by **YAB Datuk Patinggi Tan Sri Abang Zohari Tun Abang Openg**, the Premier of Sarawak, brought together experts and leaders to discuss the latest trends and challenges in technology and innovation.

- The MBOT Student Chapter, TUNE was officially launched, encouraging students' participation in the field of technology.

11.05.2023

06.06.2023



**CEO**  
Roundtable  
Session

The **CEO Roundtable** gathered 42 technology industry leaders and academic experts to discuss strategies for "Future-Proofing the Workforce: Developing Highly Skilled Talent."

15.08.2023



## ENTICE 2023

- Signing of MoU with Professional Bodies from Five ASEAN Countries, marking the establishment of the Global Technological Alliance (GTA) to promote international collaboration.
- MBOT Award Ceremony for:
  - Anugerah Teknologis Negara 2023.
  - Anugerah Juruteknik Negara 2023.
  - MBOT Woman Leadership Award.
  - Distinguished Honorable Award.

The **MBOT TTAC Townhall** engaged 150 participants from various universities and training institutions. The session was further strengthened by the exchange of Memorandum of Understanding (MoUs) with 19 higher education institutions.

17.10.2023

15.12.2023

The **Red Lips Mentorship** program, part of the MBOT Woman Technologist Chapter, brought together influential women leaders as mentors.

20.12.2023

**The MBOT TUNE Summit 2023:** Igniting Minds, Inspiring Innovation, jointly organised with Universiti Tenaga Nasional (UNITEN).



16.06.2024

MBOT has been officially recognised as a **full signatory of the Seoul Accord**, an international accreditation agreement for IT and computing programmes, which allows MBOT graduates to be recognised on par with countries like Australia, the UK, Taiwan, Korea, and the US.



26.11.2024

**Woman Technologist Chapter Red Lips 2024:** "Women In Tech Paradox".



30.07.2024

**ENTICE 2024**

The **STRIVE 2024-2029** strategic plan was launched as part of MBOT's ongoing efforts to drive growth and innovation.



07.01.2025

The launch of the **Professional Development Certification** marks a key initiative and strategic collaboration between MBOT and Human Resources Development Corporation (HRD Corp) to elevate professional standards and talent development in Malaysia.



27.02.2025

**The C-Suite Roundtable 2025**, themed "Redefining The Future: Leading Tech Talent Amidst Global Shifts," was officially launched by the Minister of Science, Technology, and Innovation, YB Chang Lih Kang. The session brought together 30 senior executives to explore the evolving landscape of technology talent on a global scale.

20.03.2025



Ts. Mohd Jalaluddin bin Ahmad, Information Technology Officer at the Akademi Seni Budaya dan Warisan Kebangsaan (ASWARA), marked the milestone of **MBOT's 100,000th registration**.

07.08.2025

MBOT Computing Education Symposium 2025.

# Evolusi TVET Menuju Arus Perdana Pendidikan Negara

*Wawancara Bersama*

**Ts. Zulkernai bin Fauzi**

Pengarah Bahagian Pendidikan dan Latihan Teknikal Vokasional  
Kementerian Pendidikan Malaysia



**Bagaimanakah tuan melihat evolusi Kolej Vokasional dari dahulu hingga kini, khususnya dari segi peranan, hala tuju dan penerimaan masyarakat?**

Sejak penubuhannya, Kolej Vokasional telah melalui transformasi besar dalam memperkukuh peranan sebagai peneraju pendidikan teknikal dan vokasional negara. Dahulu, masyarakat mungkin melihatnya sebagai laluan alternatif, tetapi kini ia sudah menjadi pilihan utama kerana graduannya terbukti mempunyai

kemahiran yang tinggi serta mudah menembusi pasaran kerja. Hala tuju kita jelas iaitu melahirkan modal insan yang bukan sahaja mahir secara teknikal, tetapi juga mampu menyesuaikan diri dengan perubahan industri masa depan.

**Pada pandangan tuan, apakah keunikan dan kelebihan utama yang membezakan graduan Kolej Vokasional berbanding institusi lain?**

Keunikan graduan Kolej Vokasional terletak pada keseimbangan pengetahuan teori dan amali. Mereka bukan sahaja dibekalkan dengan ilmu pengetahuan, tetapi juga pengalaman praktikal yang intensif melalui latihan industri yang juga dikenali sebagai On-the-Job Training (OJT). Graduan kita memasuki pasaran kerja dengan keyakinan kerana sudah biasa dengan peralatan sebenar, suasana bengkel, serta budaya kerja industri. Inilah nilai tambah yang membezakan mereka daripada institusi akademik lain.

**Apakah strategi utama tuan dalam memperkukuh jalinan kerjasama antara institusi TVET dan pihak industri bagi memastikan latihan yang ditawarkan lebih selari**





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**Visi jangka panjangnya ialah mewujudkan ekosistem TVET yang diiktiraf di peringkat antarabangsa, melahirkan tenaga kerja berkemahiran tinggi yang bukan sahaja boleh bekerja di dalam negara tetapi juga diterima di pasaran global.**

**dengan keperluan sebenar pasaran kerja?**

Strategi utama kami adalah memperkukuh hubungan dua hala dengan industri melalui program OJT, perkongsian kurikulum, dan pensijilan

bersama. Industri terlibat secara langsung dalam menggubal silibus agar kemahiran yang diajar benar-benar memenuhi kehendak semasa. Selain itu, BPLTV juga menjalin kerjasama strategik dengan syarikat multinasional dan tempatan bagi memastikan pelajar didedahkan kepada teknologi terkini.

**Kolej Vokasional adalah sinonim dengan bidang-bidang teknikal seperti automotif, pembuatan dan elektrik. Selari dengan kemunculan teknologi baharu seperti AI, IoT, dan 5G, bagaimana BPLTV memastikan graduan TVET bukan sahaja mampu untuk menyesuaikan diri, tetapi juga berdaya saing dan berinovasi dalam menghadapi perubahan teknologi ini?**

BPLTV sentiasa mengemas kini kurikulum sejajar dengan perkembangan teknologi global. Bidang seperti automotif kini melibatkan kenderaan elektrik,

manakala sektor pembuatan pula beralih ke arah automasi dan robotik. Justeru, pelajar didedahkan kepada teknologi terkini di kolej. Selain itu, pendekatan “lifelong learning” atau pembelajaran sepanjang hayat diterapkan supaya mereka sentiasa berdaya saing, inovatif dan relevan dengan keperluan industri yang dinamik.

**Apakah harapan dan visi jangka panjang tuan terhadap masa depan pendidikan Kolej vokasional di Malaysia?**

Harapan saya adalah untuk melihat Kolej Vokasional menjadi pilihan utama dan pilihan nombor satu pelajar, setanding dengan universiti. Visi jangka panjangnya ialah mewujudkan ekosistem TVET yang diiktiraf di peringkat antarabangsa, melahirkan tenaga kerja berkemahiran tinggi yang bukan sahaja boleh bekerja di dalam negara tetapi juga diterima di pasaran global. Pendidikan vokasional harus menjadi tunjang utama dalam melonjakkan daya saing ekonomi Malaysia.

**Sempena sambutan ulang tahun ke-10 MBOT, bagaimana tuan melihat peranan MBOT dalam memperkasa pendidikan vokasional di Malaysia, terutamanya dalam meningkatkan pengiktirafan dan profesionalisme dalam kalangan pelajar TVET?**

MBOT memainkan peranan penting sebagai badan profesional yang mengiktiraf kepakaran graduan TVET. Dengan adanya pengiktirafan ini, graduan Kolej Vokasional dapat berdiri sama tinggi dengan profesional lain dalam bidang masing-masing. MBOT juga membantu mewujudkan piawaian profesionalisme yang lebih jelas, sekaligus meningkatkan keyakinan industri terhadap kualiti graduan TVET. Ini selaras dengan aspirasi negara untuk menjadikan TVET sebagai pemacu utama pembangunan ekonomi berasaskan kemahiran.

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Happy 10th Anniversary to MBOT! It's been a privilege to serve on TECHIES' publication committee, helping to mould a voice for our diverse technologists. Watching MBOT's evolution over the decade has been inspiring. May MBOT continue to be a beacon of progress and innovation for technologists everywhere.



**Assoc. Prof. Ts. Ir. Dr. Mah Siew Kien**  
Dean, Faculty of Computing  
and Engineering  
Quest International University

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Happy 10th Anniversary to Malaysia Board of Technologists.

I wish to extend my warmest congratulations to MBOT on its 10th anniversary; it is during these years we have witnessed unduly efforts made by MBOT in realising potentials, especially in developing prolific technologists and technicians in Malaysia.



On behalf of Certified Technicians, I would like to extend my heartfelt gratitude for the recognition of our hard work and dedication by MBOT and I hope that our collaboration will continue to drive more lasting success for the future of the industry.

**Tc. Khairull Anuar bin Ismail**  
Technical Assessor, MSXI Malaysia  
(Sewells Group Malaysia)

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Happy 10th Anniversary MBOT! A decade of inspiring excellence, nurturing talent, and driving Malaysia's technological transformation. May the next decade bring even greater achievements and global impact!



**Ts. Uma Shangery Aruldass,**  
Continuing Airworthiness Manager,  
Asia Jet Sdn. Bhd.

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Congratulations to MBOT on your 10th Anniversary!



Over the past decade, MBOT has successfully established a solid foundation as the professional accreditation body that recognises Malaysia's Technologists and Technicians. At the same time, MBOT has played an important role in elevating TVET and STEM as key drivers of national development. Malaysia cannot move forward without an ecosystem of Professional Technologists and Professional Technicians who are competitive, disciplined, and forward-looking.

It is vital that we continue to produce Professional Technologists and Professional Technicians of true quality and competence. Let us continue this mission, because Malaysia's future depends on the quality of technical talents we cultivate today.

May MBOT continue to be the beacon that lights the path of Malaysia's technology and technical industries towards a brighter future.

**Eur Ing Ts. Sukor Zainal**  
CEng FiMarEST CMarEng  
Executive Director,  
EFTECH Energy Solutions &  
The First Recipient of  
Anugerah Teknologis Negara

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Congratulations on MBOT's 10 years of excellence. This achievement reflects the spirit of collaboration, innovation, and a clear vision in elevating the profession of technologists and technicians. May MBOT continue to progress, inspire, and serve as a catalyst for the nation's transformation.



**Asst. Prof. Ts. Dr. Mohd Hamisa Abdul Hamid**  
Deputy Vice Chancellor (Academic),  
UCYP University