MSNT

E-NEWSLETTER

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Message from the President

As we approach the end of another dynamic year, I take this opportunity to reflect on our collective achievements and outline the path ahead for the society.

This year has been a testament to the resilience and innovation within our community. We began with the successful convening of MSNT's 35th Annual General Meeting (AGM), a significant milestone that brought together our members to review the society's progress and set strategic priorities for the future. From there, we advanced into a year filled with impactful activities, including the successful organization of the 7th Malaysia International NDT Conference and Exhibition (7th MINDTCE) and notable strides in advancing NDT training and certification standards. These achievements highlight MSNT's commitment to promoting excellence in NDT.

The 7th MINDTCE was a remarkable highlight, drawing local and international experts together to share cutting-edge advancements and best practices. With a record-breaking attendance of more than 1,300 participants, the conference demonstrated the growing significance of NDT in various industries. Your active participation as speakers, exhibitors, and attendees showcased the vibrant commitment of our NDT professionals. I am especially proud of our collaborations with industry stakeholders and academic institutions, which have further solidified our role as a bridge between research, education, and industrial application.

Moving forward, MSNT is committed to enhancing the professional growth of our members. We will continue to offer valuable resources, networking opportunities, events, and platforms for knowledge exchange to ensure that Malaysian NDT practitioners remain globally competitive. Additionally, we are expanding our efforts in civil engineering applications of NDT, a growing field that highlights the critical role of our expertise in ensuring safety and sustainability.

On behalf of MSNT's Board of Directors, I would like to express our gratitude to our members, partners, and volunteers for their unwavering support and dedication. Together, we are making significant progress toward our shared vision of advancing the NDT profession in Malaysia and beyond.

As we look to the future, I encourage all members to remain actively involved in MSNT's initiatives and share your ideas for further growth. Your contributions are vital to the continued success of our society.

Let us forge ahead with renewed determination and a shared purpose, ensuring that MSNT remains at the forefront of NDT excellence.

Thank you for your support, and I look forward to achieving greater milestones together.

Dr. Ilham Mukriz
MSNT President

NDT Cadet Academy opens its doors in Malaysia – a collaboration of Testia and CTRM

Shaping the Future Aerospace NDT Personnel Today

The new Asia-Pacific branch of Testia's NDT Cadet Academy recently opened with the first class starting in September 2024. Thanks to a partnership with Composites Technology Research Malaysia (CTRM), Testia welcomed the first batch of trainees in a brand-new NDT training facility in Malaysia.

The NDT Cadet Academy offers an intensive training course to achieve Level 2 Certification in Non-Destructive Testing (NDT). This 6- to 8-month program combines theory and hands-on practice, enabling trainees to learn and conduct NDT inspections and certifications directly. Training includes working with real aircraft parts and other components at line stations, hangars, workshops, and production facilities.

The NDT Cadet Academy contributes to the industry by preparing new qualified inspectors to support the region's manufacturing and maintenance operations. Complete NDT training, including courses, exams and OJT (on-the-job training), are all wrapped in a single package – this program is the most direct way to become an NDT inspector.

Since its inception at Testia Germany in 2021, the NDT Cadet Academy has already run four batches of trainees. After completing the compact, intense training course, they were able to progress with diverse career options in fields like NDT inspection, NDT engineering, product development, and NDT training, among others.

The recently launched training program in Malaysia marks a new milestone in the collaboration between CTRM and Testia. Just a year ago, in September 2023, the two companies signed an agreement for CTRM to become Asia-Pacific's first hub for calibrations of Testia inspection products. The agreement also established the academy program that has been launched.

For more insights about the NDT Cadet Academy and its benefits for both trainees and companies, visit the Testia website at testia.com/ndt-training/ndt-cadet-academy

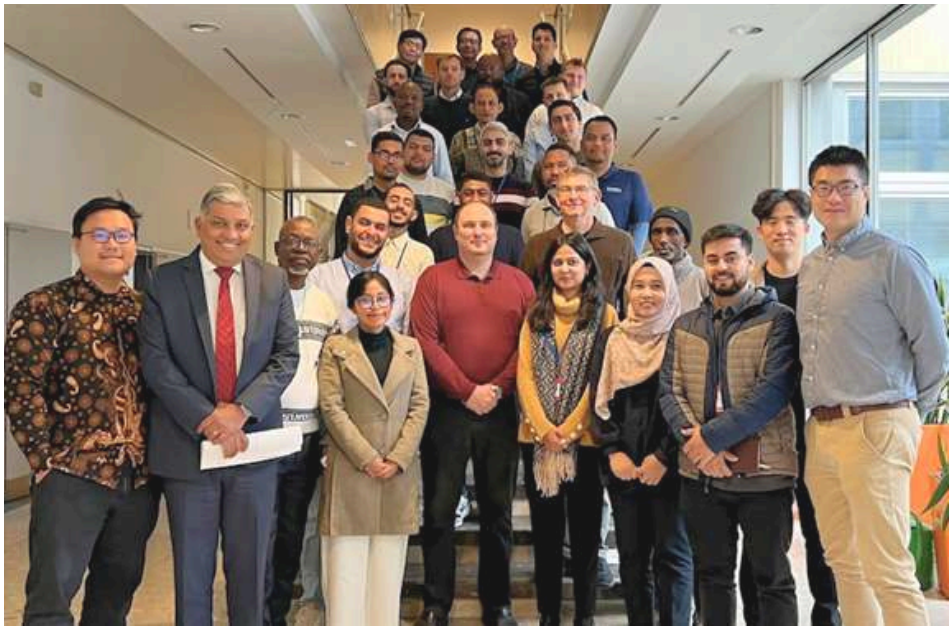
Malaysia's Impact on Global NDT: Training Workshop on Research Reactors

Advancing NDT Excellence for Research Reactors

Malaysia has again played a significant role in NDT globally with the participation of two NDT experts from Malaysian Nuclear Agency in the Training Workshop on Non-Destructive Examination, In-Service Inspection and Online Monitoring for Research Reactors organised by International Atomic Energy Agency (IAEA) from 4 to 8 November 2024.

The purpose of the event is to provide training on Non-destructive Examination methodologies and techniques, insight on In-service Inspections and On-line monitoring practices for research reactors. The experts, Mr Amry Amin Abas and Dr. Nurul A'in Ahmad Latif delivered lectures on NDT methods and certification of personnel in accordance with ISO9712.

The training workshop was participated by 26 participants from Malaysia, Slovenia, South Korea, France, Algeria, Congo, Nigeria, Bangladesh, Peru, Chile, Libya, Morocco, Jordan, Thailand, Indonesia, South Africa, Pakistan, Italy, Netherlands and Egypt. A practical session was held at the TRIGA Wien Research Reactor, TU Atominstitut in Vienna to provide a hands on experience to the participants on the application of Ultrasonic Testing (UT) on reactor cooling pipelines, Visual Testing (VT) on reactor pool and Eddy Current Arrays (ECA) on Carbon Steel and Aluminium components. At the end of the training workshop, the outcome of the training workshop and the potential of applying NDT for In Service Inspection (ISI) on each countries research reactor was presented.



Malaysia Shines at Seoul International Invention Fair 2024 Through Innovation in NDT

Innovating Safety, Leading the Future: Malaysia's Excellence in NDT at SIIF 2024!

Dr. Mohd Noorul Ikhsan and his team from the Malaysian Nuclear Agency won the Grand Prize at the 2024 Seoul International Invention Fair (SIIF 2024) for their innovative WINDR-53 Smart Electronic Winding System. This rare achievement in NDT enhances radiation safety in industrial radiography, highlighting Malaysia's leadership in NDT technology. A proud moment for Malaysia's innovation in industrial safety.

The Malaysian Society for Non-Destructive Testing (MSNT) proudly announces Malaysia's outstanding achievement at the 2024 Seoul International Invention Fair (SIIF) held at COEX, Seoul, Korea from 27th to 30th November 2024. Dr. Mohd Noorul Ikhsan bin Mohamed and his team from the Malaysian Nuclear Agency won the coveted Grand Prize of the SIIF 2024 from the Korea Invention Promotion Association (KIPA) and the Special Prize from the Department of Science and Technology – Technology Application and Promotion Institute (DOST-TAPI), Philippines.

Their invention, the WINDR-53, is the world's first wireless remote-control winding system for industrial radiography, replacing conventional winders in controlling radioactive source movement in Gamma Projectors. Designed to enhance workplace safety by reducing radiation exposure risks for radiographers, it features a pre-set timer and a portable design that boost productivity and ensure consistent, high-quality radiographic results. This innovation marks a significant advancement in safer and more efficient industrial radiography testing activities.

Competing against 519 entries from 32 countries, this victory underscores Malaysia's growing leadership in non-destructive testing (NDT) technologies and highlights the nation's role as a global innovator in the field. The SIIF, hosted by the Korean Intellectual Property Office (KIPO) and organized by KIPA, is one of the world's premier innovation platforms. Supported by the World Intellectual Property Organization (WIPO) and the International Federation of Inventors' Associations (IFIA), the fair showcases groundbreaking inventions and attracts top innovators, manufacturers, and investors from around the globe. MSNT congratulates Dr. Mohd Noorul Ikhsan and his team on this historic achievement, which not only highlights Malaysia's excellence in technological innovation but also demonstrates the nation's commitment to advancing safety in industrial practices.

9th National Seminar on Material and Structural Integrity

Advancing Material Integrity Through Collaboration

The Malaysian Society for NDT (MSNT) proudly lent its support to the 9th National Seminar on Material and Structural Integrity, held on October 28–29, 2024, at the Grand Darul Makmur Hotel. Organized by the Malaysian Association of Research Scientists and co-organized by Agensi Nuklear Malaysia, the seminar brought together experts and researchers to discuss breakthroughs in material science, integrity testing, and sustainable infrastructure across Malaysia's engineering, energy, and construction sectors.

A highlight of the seminar was the presentation by MSNT Board Member Mr. Alamin Pardi from Epic Aero Sdn Bhd. In his session, "Application of NDT in Aircraft Maintenance: Ensuring Quality and Integrity in Critical Structures," Mr. Alamin shared critical insights into the essential role that Non-Destructive Testing (NDT) plays in maintaining the safety and reliability of aircraft components. His contributions emphasized the value of NDT in protecting lives and preserving asset quality in the aviation sector.

The seminar also saw the active participation of MSNT Board Members Dr. Ab Razak Hamzah and Mr. Shahfuan Hamidi, adding to the collaborative spirit of the event and strengthening MSNT's commitment to advancing research and development in structural integrity and material sciences.

MSNT extends its heartfelt thanks to all partners and participants who contributed to the success of the seminar, helping drive innovation and excellence in these critical fields.

ASIAN WeldTech16

Building Bridges in Welding Innovation Across Industries

The Malaysian Society for NDT (MSNT) was honored to attend the opening ceremony of the 16th Asian Welding Technology & Its Application Seminar, Forum, and Exhibition (ASIAN WeldTech16) on November 6-7, 2024, at UniKL MFI in Bandar Baru Bangi. Representing MSNT at the event was Dr. Ab Razak Hamzah, who joined leaders and experts in celebrating the launch of this prominent industry gathering.

Organized by the Malaysian Welding & Joining Society (MWJS) and UniKL MFI, ASIAN WeldTech16 aimed to showcase the latest advancements in welding technology while fostering valuable industry connections. The event drew a diverse audience from academia, industry, and research, all focused on sharing expertise and exploring the future of welding practices and applications.

Through various presentations and exhibits, ASIAN WeldTech16 provided a unique look into current challenges and innovations in the welding industry. The event featured insights from experts on emerging welding techniques, equipment advancements, and solutions for quality and safety improvement, reinforcing its role as a key forum for knowledge-sharing and professional development within the field.

MSNT congratulates MWJS and UniKL MFI on the success of ASIAN WeldTech16. By attending the opening ceremony, MSNT reaffirms its support for industry events that contribute to technological advancements and collaboration across related sectors. We look forward to seeing the outcomes of ASIAN WeldTech16 continue to inspire progress within the welding and NDT fields in Malaysia and beyond.

Enhancing Defect Detection: The Role of Phased Coherent Imaging (PCI) in Phased Array Ultrasonic Testing (PAUT)

by Jeffry Jamil, Altec Industrial and Engineering Supply Sdn Bhd

PAUT has evolved into an advanced NDT technique for detecting and sizing material defects. This advanced UT technique employs multiple ultrasonic elements to develop detailed images of the internal structure of the components used in the industries. One of the latest developments related to PAUT is the introduction of PCI, which provides extended functionality of PAUT in terms of increased accuracy regarding defect detection, measurement, and sizing.

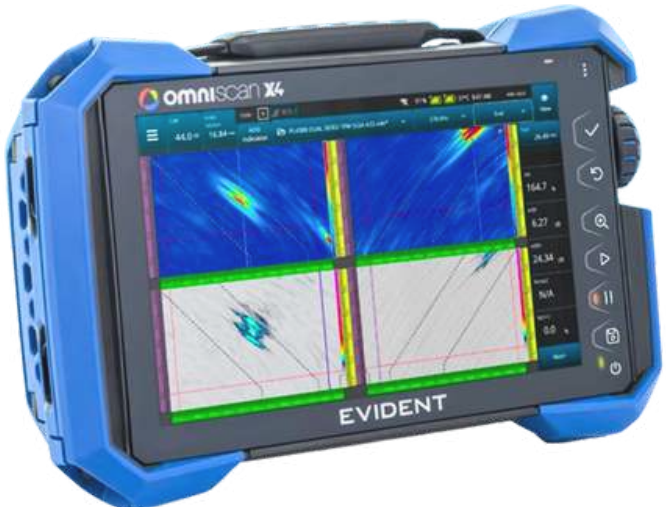
PAUT has proven to be an essential tool in NDT, enabling thorough detection and analysis of material defects. An array of ultrasonic elements, precisely controlled, builds dynamic, high-resolution images of the internal structure of a component, which may be critical in various industries. Integration of PCI has proved to be the icing on the cake for PAUT technology, which has yielded improved beam steering, focusing, and resolution. The combination of PAUT and PCI enhances defect characterization, allowing more precise flaw detection, accurate measurements, and comprehensive analysis.

Understanding PCI

PCI is an advanced signal processing method designed to enhance the quality of ultrasonic images produced by PAUT using the Full Matrix Capture (FMC)/Total Focusing Method (TFM) technique. PCI enhances image quality and resolution by coherently integrating signals from multiple ultrasonic elements, allowing for more accurate defect assessments. In contrast to conventional ultrasonic imaging, which is often susceptible to noise and signal interference, PCI effectively minimizes these disturbances. Refer to Figure 1 for illustration.

Benefits of PCI in PAUT

- **Enhanced Detectability**: One significant advantage of PCI is its ability to detect small, complex defects that conventional NDT techniques may fail to detect PCI can assist inspectors in identifying undetectable micro-cracks, significantly improving safety and reliability.



- **Accurate Sizing of Defects:** Accurate sizing is essential for assessing the integrity of components. PCI provides precise measurements of defect sizes, which is crucial for determining if a defect presents a risk. Advanced algorithms in PCI enhance the interpretation of ultrasonic signals, resulting in more reliable sizing outcomes.
- **Characterization of Defects:** PCI is highly effective in detecting and characterizing defects. For example, in the manufacturing sector, understanding the nature of a defect can guide engineers in selecting the appropriate repair strategy.

Real-World Applications

The use of PAUT combined with PCI has shown excellent results in many industries. For example, PCI is utilised in the oil and gas sector to inspect welds and pipelines, where identifying flaws is crucial to preventing catastrophic failures. A comparative analysis of inspections conducted with conventional PAUT versus those enhanced by PCI demonstrated

a significant increase in detection rates, highlighting the effectiveness of this advanced technique.

Challenges and Future Directions

mplementing PCI within PAUT offers several advantages but faces challenges, primarily due to the technology's complexity and high costs, which restrict widespread adoption. However, advancements could potentially make PCI a standard practice in NDT. Also, machine learning with AI and PCI could upgrade defect detection by automating the analysis while improving the accuracy of defect characterization.

> Integrating PCI with PAUT represents a significant advancement in NDT. PCI improves product quality and reliability by enhancing detectability, sizing, and defects characterization and contributes to safer industrial practices. The use of PCI within PAUT will continue to shape the future of NDT, with the industry striving for innovative solutions for quality assurance.

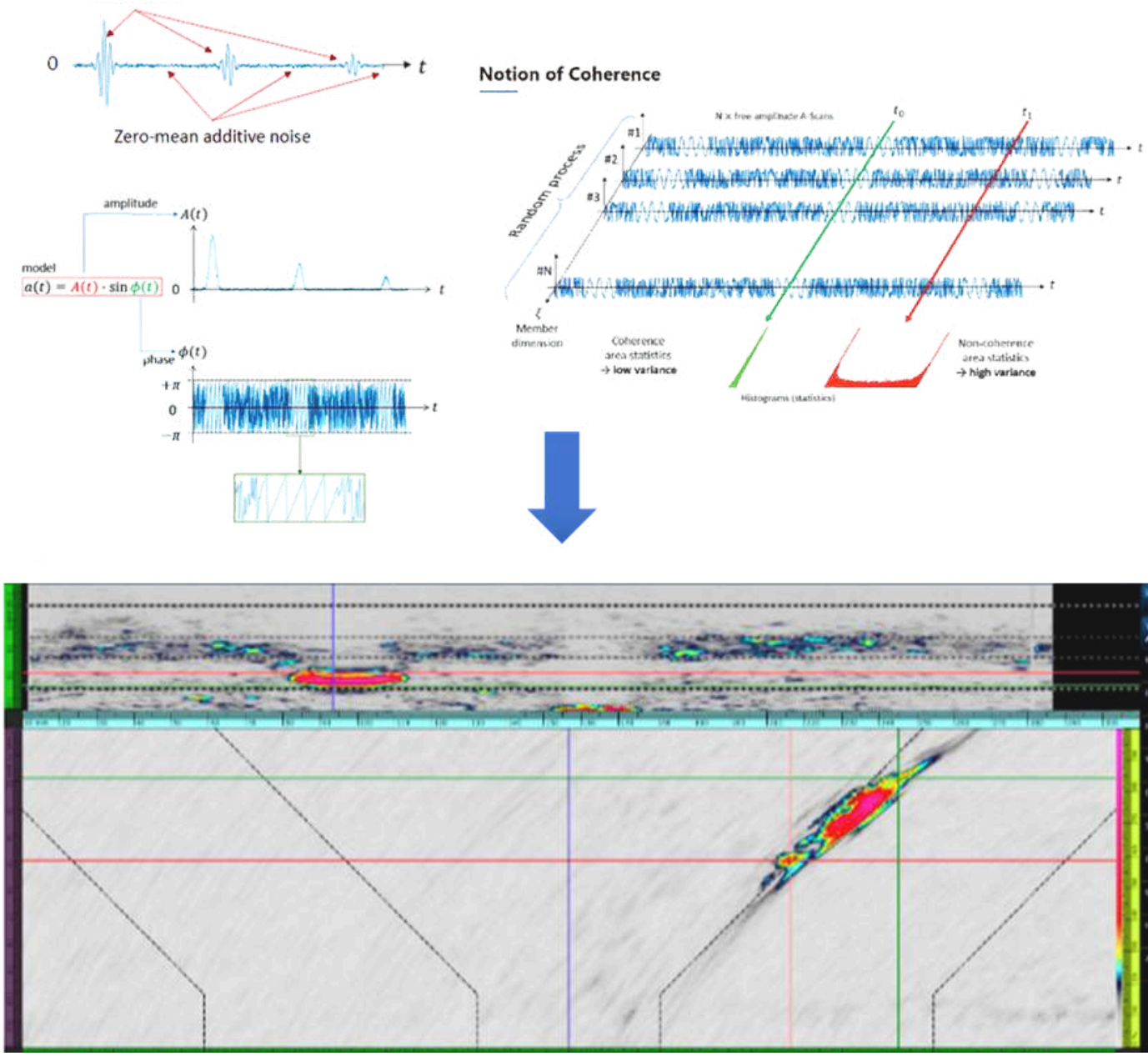


Figure 1: Illustration of signal processing resulting in PCI display.

Revolutionising Inspection Processes: The Impact of Advanced Non-Destructive Testing (NDT) Technology

by Afiq Azni Ahmad Zainuddin, Advantech Alliance Sdn Bhd

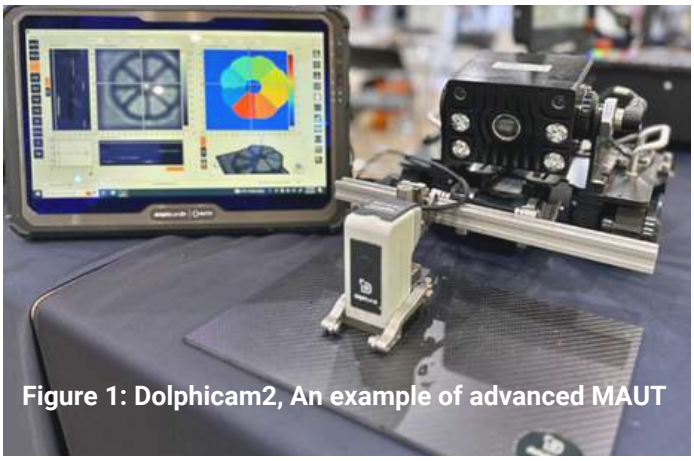


Figure 1: Dolphicam2, An example of advanced MAUT

Dolphitech is a leader in NDT, which uses advanced technologies to improve inspection processes across various industries. This article explores Dolphitech's advanced solutions, specifically Matrix Array Ultrasonic Testing (MAUT) technology, to enhance the evaluation of materials integrity. An example of Dolphitech's application is shown in Figure 1.

The Evolution of NDT Technology

NDT mainly uses visual inspections and basic ultrasonic testing (UT). While these methods are effective, they often lack accuracy and efficiency. The introduction of advanced technologies has revolutionised these processes, enabling inspectors to detect flaws with greater precision and speed. Dolphitech's MAUT technology represents a significant advancement in UT, providing a sophisticated approach that significantly improves inspection capabilities.

Understanding MAUT Technology

MAUT uses a two-dimensional (2D) matrix array transducer with multiple elements arranged in a grid. This setup allows for the simultaneous sending and receiving of ultrasonic waves, covering a larger area than conventional UT methods.

Unlike standard UT, which uses a single element, or Phased Array Ultrasonic Testing (PAUT), which has a one-dimensional (1D) array, MAUT provides a clearer view of the inspected material. It creates detailed two-dimensional (2D) and three-dimensional (3D) images of internal structures. Different types of ultrasonic technology are shown in Figure 2.

The crossing of 128 transmitting and receiving electrodes from DolphiCam2 transducer produces the total of 16,384 elements and A-scans, as shown in Figure 3. This arrangement allows for a detailed analysis of complex materials, such as GFRP, and helps assess corrosion with vast data available for analysis.

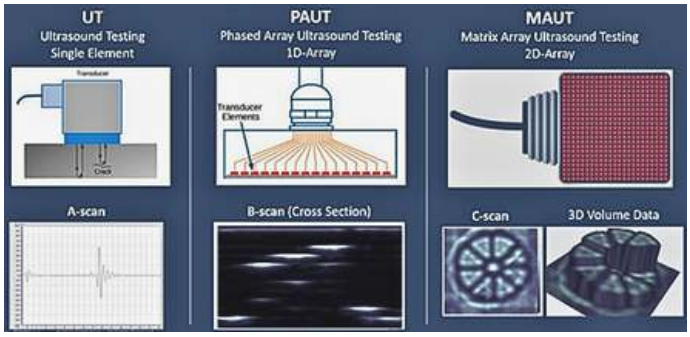
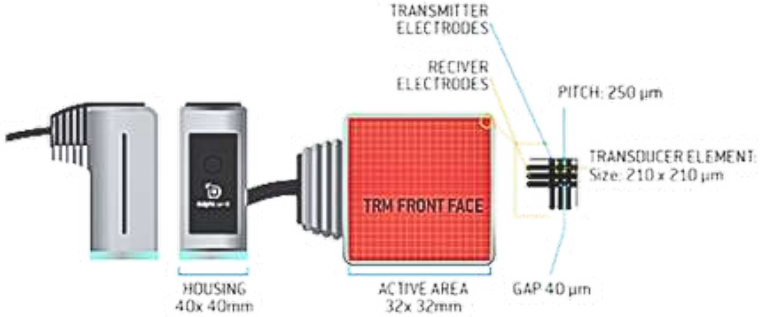


Figure 2: Various Ultrasound Technologies



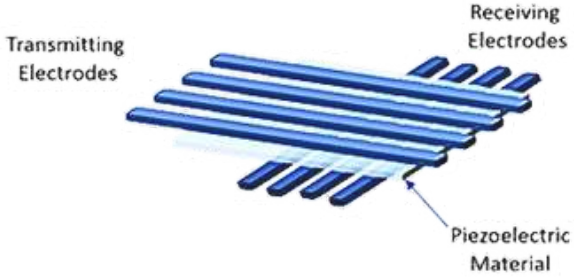


Figure 3: Example configuration for the Dolphicam2 MAUT transducer

Advantages over traditional UT and PAUT:

1. Comprehensive Imaging: Unlike UT, which provides a single-dimensional view, MAUT generates 2D and 3 images, allowing for a more thorough understanding of internal structures.

2. Speed and Efficiency: MAUT can scan large areas, reducing inspection times significantly. This efficiency is crucial in industries where downtime can lead to substantial financial losses.

3. User-Friendly Interpretation: The data generated can be visualised in various formats, including A-scans, B-scans, and C-scans, making it easier for operators to interpret results without extensive training.

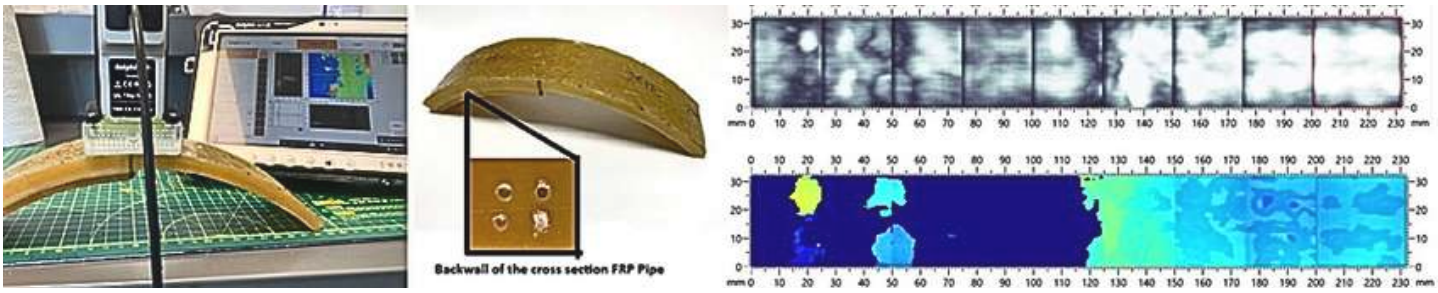
4. Portability and Versatility: Dolphitech's MAUT systems, such as the Dolphicam-In-A-Box (DIAB), are designed for portability, making them suitable for field inspections. The DIAB system can be easily transported and deployed in various environments.

MAUT Acceptance By the Industry

Dolphitech's advanced NDT technology is applicable in numerous sectors, each benefiting from enhanced inspection capabilities:

Oil and Gas

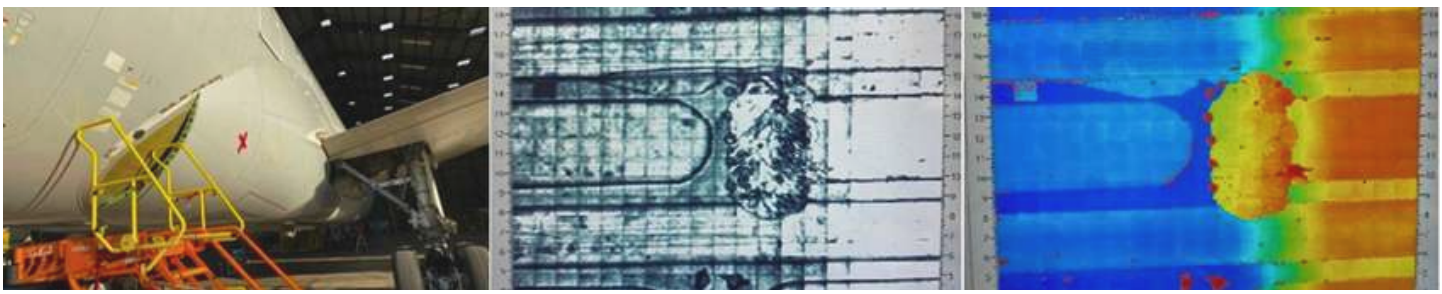
GFRP composites are often used in pipelines, tanks, and offshore structures due to their corrosion resistance and lightweight properties in the oil and gas sector. MAUT technology enables practical inspection of these critical components, detecting flaws that could lead to leaks or structural failures. Regular inspections ensure compliance with safety regulations and help prevent costly environmental incidents, making MAUT an invaluable tool in maintaining the integrity of oil and gas infrastructure.



FRP Pipe thickness and flat bottom hole detection

Aviation

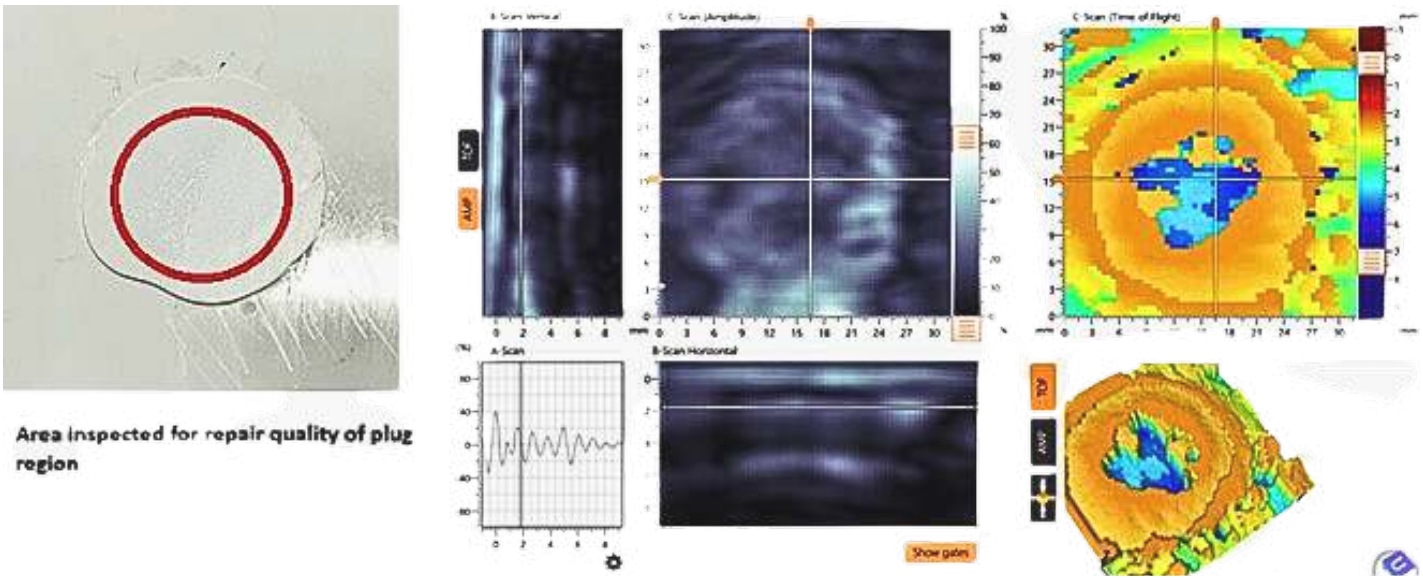
In aircraft manufacturing, ensuring the integrity of composite materials is critical for safety. MAUT allows for thorough inspections of components like wings and fuselage sections, identifying potential issues before they lead to failures.



CFRP Impact Damage Inspection

Shiipping

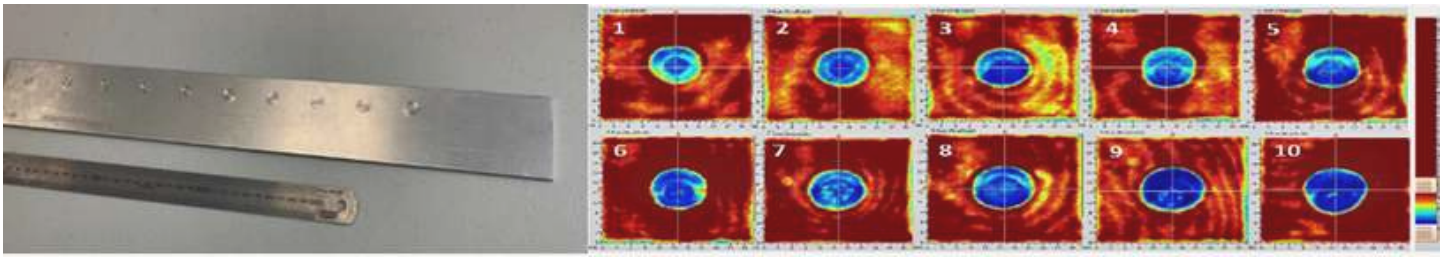
The marine industry relies composite materials for boat hulls and other structures to provide light weight vessels for strength and performance. Base line and regular inspections using MAUT can help maintain the structural integrity of vessels, preventing costly repairs and ensuring safety at sea.



Marine Vessel Glass Fibre Hull Repair Inspection

Automotive

As the automotive industry increasingly adopts composite materials for weight reduction and performance enhancement, MAUT provides a reliable method for quality assurance during manufacturing processes, even for metallic spot welds.



Application on Automotive Spot Weld

The integration of Dolphitech's MAUT technology delivers a range of technical advantages:

1. Increased Accuracy:
The high-resolution imaging capabilities of MAUT enable the detection of even the smallest defects, enhancing safety in critical applications.

2. Cost-Effectiveness:
By reducing inspection times and improving accuracy, MAUT technology significantly saves turnaround time, maintenance, and repairs.

3. Data-Driven Insights:
The technology generates vast amounts of data that can be analyzed for trends and patterns, allowing organizations to make informed decisions regarding maintenance schedules and material usage.

Dolphitech's advanced NDT technology transforms inspections across industries, particularly its MAUT solutions. These innovations boost accuracy, efficiency, and safety, ensuring more reliable material integrity assessments. Industries adopting these technologies unlock significant safety and operational efficiency improvements.

C. Melchers GmbH & Co. (Malaysia) Announces Strategic Integration of Material Testing Division with Nexus Analytics and Relocation to New Office Facility

by Muhammad Aslam, Calibration Laboratory Manager, C. Melchers GmbH & Co., (Malaysia)

C. Melchers GmbH & Co. (Malaysia) is pleased to announce the strategic integration of its Material Testing Division with Nexus Analytics, a renowned provider of high-quality scientific instruments and laboratory solutions in Malaysia.

This partnership enhances our capabilities as a leading supplier of non-destructive testing (NDT) technologies and material equipment, reflecting our commitment to innovation, excellence, and the highest standards of quality and reliability. Together with Nexus Analytics, we aim to strengthen our position as a trusted partner in the industry and play a vital role in supporting Malaysia's industrial sector through world-class testing solutions.

Accreditation and Recognition

C. Melchers GmbH & Co. (Malaysia) is proud to uphold internationally recognized standards, including ISO/IEC 17025:2017 accreditation. This reflects our commitment to excellence in calibration services and ensures we remain a trusted partner for Malaysia's growing industrial sector. Our current capabilities cover a wide range of equipment, including:

- Phased Array Ultrasonic Testers (PAUT)
- Ultrasonic Flaw Detectors (UTFD)
- Eddy Current Flow Detectors (ECF)
- Radiometers (UVA & LUX)
- Magnetic Particle Inspection (MPI) and more.

To meet the evolving demands of the industry, we are actively planning to extend the scope of our accreditation to include additional non-destructive testing (NDT) equipment. This strategic initiative reflects our continued commitment to staying at the forefront of technology while maintaining the highest level of accuracy and quality in our calibration services.

New Office Facilities Designed for Innovation and Client Engagement

As part of this strategic integration, C. Melchers GmbH & Co. (Malaysia) has relocated to a new, purpose-built facility at:

> *D5-07-G, Block D5, Pusat Perdagangan Dana 1, Jalan PJU 1A/46, 47301 Petaling Jaya, Selangor.*

This relocation represents our commitment to creating an optimal environment for both our team and our clients. The new office features modern, well-equipped spaces designed for product demonstrations, technical workshops, and training sessions, providing clients with direct access to our technology and expertise.

Celebrating New Beginnings with Tradition and Community

To commemorate this dual milestone, we held an official opening ceremony featuring a traditional lion dance to symbolize good fortune and prosperity in our new space and partnership. This event brought together our team members and partners, reaffirming our shared commitment to progress, collaboration, and excellence within the industry.

Team members are celebrating the opening ceremony at the new office.

Leadership Vision and Commitment to the Industry

Commenting on the integration, Mr. Alexander C. Melchers, Managing Director of C. Melchers GmbH & Co. KG, Malaysia and Singapore Branch shared "Our partnership with Nexus Analytics is a testament to our commitment to providing best-in-class non-destructive testing solutions to our clients. By combining our resources and expertise, we are not only expanding our capabilities but also reaffirming our dedication to supporting Malaysia's industrial growth through reliable, innovative testing technologies."

Mr. Nick Grantham, Managing Director of Nexus Analytics, Malaysia and Singapore Branch expressed enthusiasm about the partnership, noting,"Our collaboration with C. Melchers GmbH & Co. (Malaysia) will allow us to broaden our reach and deliver more comprehensive support to our clients. Together, we are well-equipped to meet the increasingly sophisticated demands of the non-destructive testing industry, and we look forward to advancing the field through this strategic integration."

> "A game-changer, bringing immense benefits to the NDT industry in Malaysia. It's a step towards a brighter and more innovative future"

NDE 2024: Showcasing the Future of Non-Destructive Evaluation

Imagine, Innovate, Ignite, Inspire

The 34th Annual Conference and Exhibition on Non-Destructive Evaluation & Enabling Technologies (NDE 2024), organized by the Indian Society for Non-Destructive Testing (ISNT), concluded successfully from December 12 to 14, 2024, in Chennai, India. The event witnessed massive footfalls over all three days, reaffirming its status as one of the premier gathering for the NDE community.

NDE 2024 brought together industry leaders, researchers, and academicians from across the globe. Indian participation included 30-35 prominent companies. At the same time, international representation from professional societies like ASNT (USA), AWS (USA), DGZfP (Germany), MSNT (Malaysia), NDTSS (Singapore), APFNDT, ICNDT, and others from Australia, and Britain highlighted the event's global significance.

Key Highlights

- **Inaugural Sessions**: Distinguished speakers and dignitaries inaugurated the conference, setting the stage for three days of impactful discussions and knowledge sharing.
- **Technical Presentations**: Over 100 expert speakers shared their insights on diverse themes, including structural health monitoring, advancements in radiography, ultrasonic technologies, and NDE applications in critical industries such as aerospace, energy, and concrete infrastructure.
- **Workshops and Tutorials**: Engaging seminars, such as the scientific writing session by Springer, equipped participants with essential skills to advance their research and professional endeavors.

- **Exhibition**: An impressive exhibition showcased state-of-the-art NDE technologies and solutions from leading global and Indian companies, fostering hands-on interactions with cutting-edge advancements.

Themes and Sessions

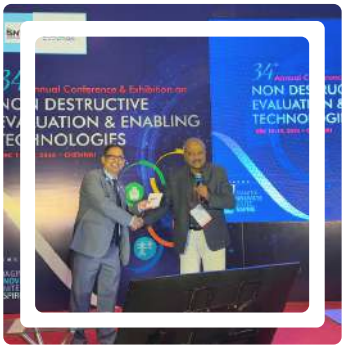
The conference agenda of NDE 2024 covered a wide range of topics, addressing critical challenges and advancements in the field of Non-Destructive Evaluation. Key themes included **Aerospace Innovations**, focusing on advanced ultrasonic and radiographic testing techniques to enhance safety and performance in critical applications; **Energy Sector Applications**, emphasizing NDE's role in ensuring safety, reliability, and efficiency in nuclear, renewable, and traditional energy systems; **Concrete and Infrastructure**, which highlighted innovative methodologies for assessing and maintaining structural integrity in

ISNT and MSNT President

large-scale projects; and **Advances in Radiography Imaging**, exploring breakthroughs in radiographic techniques such as digital detectors, flexible X-ray systems, and automated inspection solutions for improved accuracy and efficiency. These themes underscored the vital role of NDE technologies across diverse industries.




DELEGATES FROM MALAYSIA




IAEA Publishes Guidelines on Training Syllabi in NDT for Civil Engineering (NDT-CE)

Training syllabi for methods and techniques used in civil structures inspection

The International Atomic Energy Agency (IAEA) has recently released comprehensive guidelines outlining training syllabuses for Non-Destructive Testing in Civil Engineering (NDT-CE), marking a significant milestone in standardizing training within this critical field. Available for download from the IAEA website, this document serves as an essential resource for trainers, training organizations, and certification bodies. It provides a structured framework for equipping NDT personnel with the expertise and technical skills necessary to safeguard the integrity and safety of civil structures worldwide.

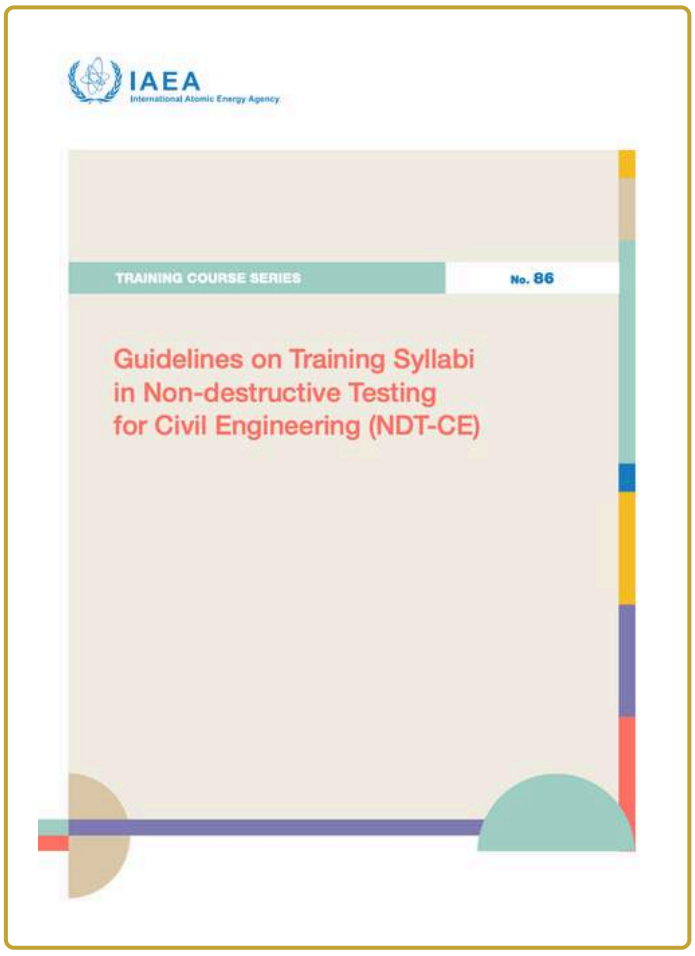
Addressing the Growing Demand for NDT in Civil Engineering

Civil structures such as buildings, bridges, dams, and tunnels are critical components of public safety and national infrastructure. As these structures age and are exposed to natural disasters, regular inspections become essential. NDT methods and techniques play a pivotal role in assessing the integrity, safety, and durability of structural components without compromising their future usefulness.

The publication provides comprehensive requirements and guidance for training syllabuses tailored to NDT methods and techniques used in civil engineering applications. Aligned with ISO/TS 25107:2019, it serves as a key reference for NDT trainers and certification bodies, detailing subject matter and certification-level content in a standardized format.

Implications for Malaysia's NDT-CE Sector

With the aging of existing mega structures and Malaysia's ongoing investments in infrastructure development, the availability of these guidelines is timely. They provide a clear roadmap for local institutions to develop or enhance their training programs, ensuring a steady supply of competent professionals capable of meeting industry demands.



Furthermore, the guidelines support Malaysia's efforts to establish a national standard for NDT-CE, a collaborative initiative by MSNT, JPK, and the Department of Standards Malaysia (DSM)."

A Call to Action

The publication of the IAEA's training syllabi for NDT-CE represents a major advancement in the field. MSNT applauds this initiative and urges local stakeholders to adopt and integrate these guidelines into their training programs. By doing so, Malaysia can enhance its NDT capabilities while contributing to global efforts for safer and more reliable infrastructure.

For more details, visit the IAEA website or contact MSNT for local updates and training opportunities.

MSNT Membership

Get Yourself Updated

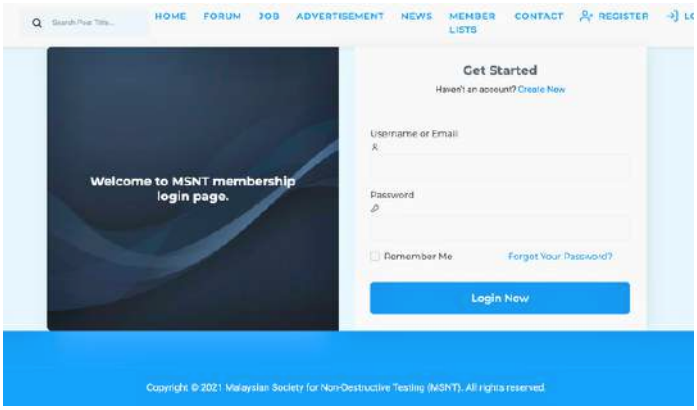
We would like to extend a warm invitation to all professionals and enthusiasts in the field of Non-Destructive Testing (NDT) to join us as members of the Malaysian Society for Non-Destructive Testing (MSNT). As a vibrant and dynamic society dedicated to promoting excellence in NDT practices, we value the contributions and expertise of individuals like you.

By becoming an MSNT member, you not only gain access to a wealth of resources, networking opportunities, and industry insights but also play an integral role in shaping the future of NDT in Malaysia. Our society thrives on the diverse experiences and knowledge of our members, and we believe that your involvement will enrich our community and advance the field of NDT across various sectors.

You may register as a member of MSNT by scanning the QR code.

We also kindly remind all existing members to ensure that their information is updated on our website. You may check and update your details at https://member.msnt.org.my/

By taking a few moments to log in to your member account on our website, you can review and update your profile information such as contact details, professional affiliations, and any other pertinent information. This not only helps us maintain accurate records but also ensures that you are well-informed about upcoming events, initiatives, and important announcements within our community.



Thank you for considering membership with MSNT and for your continued support and active participation.

KUALA LUMPUR
18th APCNDT
ASIA PACIFIC CONFERENCE FOR NDT

DEPARTMENT OF SKILLS DEVELOPMENT
MALAYSIA NDT CERTIFICATION BODY

Qualification & Certification

DSD

DSD NDT Programs

MAGNETIC TESTING (MT)
PENETRANT TESTING (PT)
ULTRASONIC TESTING (UT)
EDDY CURRENT TESTING (ET)
RADIOGRAPHIC TESTING (RT)
RADIOGRAPHIC INTERPRETATION (RI)
RADIOGRAPHIC TESTING - DIGITAL (RT-D)

MALAYSIAN NDT PERSONNEL CERTIFICATION ISO 9712

STANDARDS MALAYSIA ACCREDITED

ICNDT
Registered under MRA Schedule 2

DSD ACCREDITED NDT TRAINING CENTRES

NUKLEAR MALAYSIA
SIRIM
Ruane-TATI Sdn. Bhd.
ADTEC JERANTUT
JOHOR SKILLS DEVELOPMENT CENTRE
RSA
ITC Skills Training Institute

DEPARTMENT OF SKILLS DEVELOPMENT (JPK)
Ministry of Human Resources (MOHR)
Level 7 - 8, Setia Perkasa 4, Kompleks Setia Perkasa
Federal Government Administrative, 62530 Putrajaya

GET YOUR MALAYSIAN SKILLS CERTIFICATE FOR NON-DESTRUCTIVE TESTING (SKM-NDT)

DSD

STEP 1
PASS A VISION TEST

STEP 2
COMPLETED THEORY AND PRACTICAL CLASSES

STEP 3
PASS THE THEORY AND PRACTICAL EXAMS

STEP 4
GAINING INDUSTRIAL EXPERIENCE

STEP 5
CERTIFICATION

DEPARTMENT OF SKILLS DEVELOPMENT (JPK)
Ministry of Human Resources (MOHR)
Level 7 - 8, Setia Perkasa 4, Kompleks Setia Perkasa
Federal Government Administrative, 62530 Putrajaya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HOLIDAYS
& HAPPY NEW YEAR
Malaysian Society for NDT
contacts@msnt.org.my
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QUALITY THROUGH NDT
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