

Organised By:



INTRODUCTION OF ADVANCED NDT AND INDUSTRIAL DAMAGE MECHANISMS

Date: 29 October 2022

Time: 8:00 AM – 5:00 PM

Venue: Curtin University Malaysia

Mode of Seminar: Virtual & Face-to-Face

Fee: RM 80.00/pax

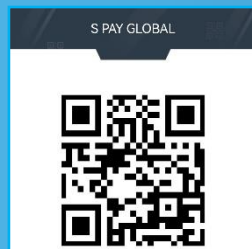
Contact Person: Phang Yeen Yeen (013-8312788)

Payment Method: Bank in to CIMB Bank
(7057987691) OR Sarawak Pay

Registration Form:

<https://forms.gle/2pLhqu92FnWw1M638>

***16 IMM CPD POINTS**



This one-day course covers a wide range of processes for service-induced degradation and damage, including as corrosion and other forms of metallurgical damage that are common in industrial processing sectors. The advanced NDT techniques, which can deliver better inspection outcomes, facilitate easier interpretation, and speed up procedures compared to conventional NDT techniques, will also be a major focus of this course.

Upon completion, participants will be able to define general damage mechanisms applicable to the industry and be able to identify their features and functions. They will be able to recognize the fundamentals of advanced NDT techniques and compare their efficiency with conventional NDT techniques.

The course is designed and beneficial to inspectors, engineers, designers and experienced maintenance personnel who involved in the operation, maintenance, repair, inspection, analysis of pressure vessels, piping, tanks, and pipelines for safe operations in oil and gas and other related industry fields.

Time	Programs
Morning Session	
7:30 am	Registration
8:00 am	Introduction to Advanced NDT Techniques Phased Array Ultrasonic Testing (PAUT) Time of Flight Diffraction (ToFD) Alternating Current Field Measurement (ACFM) Q&A
9:45 am	Tea Break
10:15 am	Eddy Current Testing (ECT) Computed Radiography (CR) Digital Radiography (DR) Q&A
12:00 pm	Lunch

Time	Programs
Afternoon Session	
1:00 pm	Metallurgical Failure Mechanisms Hydrogen Embrittlement Sigma Phase Embrittlement Brittle Fracture Thermal Fatigue Q&A
3:00 pm	Tea Break
3:30 pm	Galvanic Corrosion Corrosion Under Insulation (CUI) Chloride Stress Corrosion Cracking Reheat Cracking Q&A
5:00 pm	Presentation of Certificates of Participation



Presenter:
Mr. Sujit Chakravarty (ASNT Level III)

Mr. Sujit Chakravarty has graduated from Ordnance Factory Board (Ministry of Defense Govt. of India) after having diploma in mechanical engineering. He is a qualified NDT Level 3 trainer by The American Society for Nondestructive Testing Inc. Columbus, Ohio, USA. He has a variety of experience while working for companies like ISGEC, Reliance Industries, OPI, Velosi (M) Sdn. Bhd. for 28 years. As an ASNT NDT Level 3 practitioner from 1998, he had trained many NDT personnel of different levels and methods. He is life member of ASNT (American Society for Nondestructive Testing), ISNT (Indian Society for Nondestructive Testing) & MSNT (Malaysian Society for Nondestructive Testing).

He is actively associated with research in NDT and presented papers in National & International conferences like IMM conferences in 2012 & 2015, APCNDT 2017, NDE-2018, NDE-2019, WCNDT 2020, and 6th MINDTCE 2022.



Presenter:
Ir. Dr. Edwin Jong Nyon Tchan

Ir. Dr. Edwin Jong has graduated with a Doctorate Engineering Degree in Materials Engineering from Imperial College of Science, Technology and Medicine, University of London, England, United Kingdom. During his 21-year employment in Sarawak Shell Berhad in Miri, he has gained extensive hands-on working experiences dealing with materials and corrosion engineering, welding technologies and inspection techniques. He has also gained an extended experiences with various aspects of deepwater engineering design projects after being transferred to Shell Malaysia Regional Deepwater Engineering Project residing in Kuala Lumpur until he retired in April 2012.

In summary, Ir. Dr. Edwin Jong has gained seven years of scientific research experiences while working as a research scientist with ICI Advanced Materials Research in Runcorn and a total of 21 years working experiences mainly in the Oil and Gas Industry upstream sector, holding various positions as Company Metallurgist, Senior Materials & Corrosion Engineer, Principal Materials & Corrosion Engineer, Senior RBI Engineer, Senior Materials & Welding Engineer cum Team Lead and a Technical Authority (TA) dealing with all technical aspects of Materials and Corrosion Engineering, Welding Technology, RBI-based Integrity Assessment and Inspection Techniques.