

# WEBINAR TALK ON

# INTRODUCTION TO

# WELDING ENGINEERING

JOINTLY ORGANISED BY :  
MARINE ENGINEERING & NAVAL ARCHITECTURE TECHNICAL DIVISION &  
OIL, GAS & MINING TECHNICAL DIVISION, IEM

BEM APPROVED CPD : 2

REF NO : IEM21/HQ/426/T (w)




**SPEAKER :**

**Ir. Ts. PRAGASH KRISHNASAMY**

CEng. IntPE. APEC. ACPE

**27 NOVEMBER 2021, SATURDAY**  
**11.30AM - 1.30PM**

Follow Us:

 Telegram  
MyIEM HQ Official - General

 Instagram  
myiem\_official



**REGISTRATION FEE :**

**IEM STUDENT : FOC**

**IEM MEMBERS: RM15**

**NON IEM MEMBERS: RM70**

# SYNOPSIS

The use of welding in today's technology is extensive. It had a phenomenal rise since about 1930 the growth rate of which has been higher than the general industrial growth. The application of welding is mainly used in industry for bridges, building, pressure vessels and tanks, storage tanks, piping and pipelines, ships, trucks and trailers, machine tool frame, cutting tools and dies, earth moving equipment, cranes etc. and also many common everyday use items like household appliances, electronic equipment, machinery, cars, aircraft etc. depend upon welding for their economical construction.

This introduction to welding engineering webinar provides the welders, inspectors, engineers and managers with a practical understanding of welding technology, with the goal of ensuring equipment reliability. The webinar introduces the fundamentals of welding technology, carriers in welding and competency.

The focus of the webinar is welding technology, but it also includes practical information that comes from speaker with experience of owner-users as well as in a fabricator.

## WHO SHOULD ATTEND

This course is intended for welders, welding operators, quality control inspectors, welding inspectors, source inspectors, coordinator, engineers, managers and other inspectors serving in a fabrication, hook-up commissioning, maintenance or reliability role. Project engineers, beginners and intermediate in welding careers, those for careers transition, students and lecturers in materials, mechanical or marine discipline will also benefit.

## WEBINAR BENEFITS AND LEARNING OUTCOMES

You will develop a basic understanding of the common welding processes, materials, types of joints, welding symbols, welding position, electricity, procedure, qualification, responsibilities, safety, codes and standards.

You will identify definitions and terminology associated with welding, demonstrate safe working habits in the welding environment, name the parts and types of welds and weld joints, interpret basic welding symbol information and identify opportunities available to welders.

You will gain an understanding of the carriers in welding and competency.

## SPEAKER'S PROFILE

Mr. Ts. Pragash Krishnasamy holds a Bachelor in Mechanical Engineering and Master in Asset Management and Maintenance from the Universiti Teknologi PETRONAS. He is a Professional Engineer of the Board of Engineers Malaysia and Institute of Engineers Malaysia. Equally, he is a Chartered Engineer and a Fellow of the Institution of Mechanical Engineers (IMechE). In addition, he is also registered International Professional Engineer of IPEA as well registered APEC Engineer and ASEAN Chartered Professional Engineer (ACPE). Moreover, accredited as Professional Technologist (Ts) from MBOT. Furthermore, he is Authorized Offshore Self-Regulation (OSR) Inspector for jurisdiction of DOSH Malaysia and various competent Inspector certification.

He has over 17 year's continuous experience in the operator oil and gas industry, well-versed in technical, commercial, statutory and regulatory in Life Cycle Mechanical Integrity Management of Fabrication, Commissioning, Operation, Maintenance, Inspection and Decommission phases. Throughout his carrier, he has developed mechanical integrity management system, leading various risk-based inspection assessment (RBI) for static equipment and piping including corrosion loop and piping circuit development, risk assessment, inspection reference plan, written scheme examination development, Offshore Self-Regulatory Inspection, welding inspection and metallurgy, defect assessment (FFS) and rectification, Investigation and Root Cause Failure Analysis (RCFA) for upstream facilities, leading asset integrity assurance according to ISO 55000 and second party auditing according to ISO 9001.

He is very competent in written communication skills and has a passion in "RESET" (Reliable, Effectiveness, Systematically, Efficiencies and Tangible). Apart, he have trained numerous subordinates and others in Technical and Soft skills. Most of Clients find the method of writing that he has pioneered is much easier to learn, faster to apply and gives better results.

He is Professional Interviewer for MOGSC/MBOT and IMechE, committee member of Institution of Mechanical Engineers (IMechE) young member section of Malaysia, corporate member of Institute of Engineers Malaysia (IEM), member of Welding Institute of Malaysia (WIM), member of The Welding Institute (TWI), British Institute of Non-Destructive Testing (BINDT) and International Register of Certificated Auditors (IRCA). He had presented numbers of paper at university and school with collaboration IMechE YMS Malaysia. One of his greatest achievement was published ExxonMobil internal "Corrosion Awareness Handbook": A Guide for Visual Recognition of External Integrity Threats for Upstream Oil and Gas Production Plant. During the course of his carrier, he had received "Focused Recognition" from PETRONAS on the technical contribution.