

SYNOPSIS

Welding activities play a vital role during the construction phase especially in the marine and oil and gas industry, be it new construction, refurbishment or conversion projects. This course gives the essence of welding knowledge in the engineering & construction, especially suitable for engineers who intend to gain a fundamental but solid grounding on welding inspection. You will learn the structured and integrated welding technology, welding process, welding defects, duties of inspection engineers at site, tools and techniques that are applicable to managing the welding activities, welding symbols and etc. The course contents are closely referenced to CSWIP course note for welding inspector course. This two-days intensive course is both practical and interactive, supplemented with useful course note, real-life case studies and working examples.

BIODATA OF SPEAKER



Ir. Nik Mohd Hasmizie, **B.Eng (Mechanical), P.Eng, MIEM, CEng, CMarEng, MIMarEST** has 15 ¼ years of experience in the Marine & Oil and Gas industry as a Professional Engineer, Chartered Engineer and Chartered Marine Engineer. He is experienced in marine & oil and gas construction and transportation & installation projects of different sizes and complexities for greenfield and brownfield. He had previously worked with EPCIC Company, Classification Body and Client as a Project Manager, Project Engineer, Surveyor, Mechanical Engineer, Owner representative for marine and offshore projects.

The example of projects he involved are new ship building of 4 units Aframax Crude Oil Tankers 105k DWT in Samsung Heavy Industries (South Korea), new construction of WOODSIDE ANGEL topside wellhead platform, new construction of Gumusut-Kakap semi-submersible Floating Production Unit in MMHE (Pasir Gudang), FPSO (Floating Production, Storage and Offloading) ASENG conversion and refurbishment for client NOBLE ENERGY USA, FPSO N'GOMA major refurbishment & relocation project for Client ENI Angola SPA, EPCIC of EVA gas pipeline, jacket and topside Project for client Trans Thai Malaysia (Malaysia) TTMM PETRONAS, Pipeline & Topside WHP Installation H5 Phase II Project for client PTSC POS, Vietnam, Subsea Isolation Valve (SSIV) EPC Project for client HESS Exploration & Production and recently T&I of Pipelay, Jacket and Topside B15 project for client Sapura Exploration & Production (Sarawak) Inc. The involvements are including but not limited to tendering & bidding, contract management, engineering & project management, construction, procurement, sub-contract, quality assurance, welding inspection, Welding Qualification Test (WQT), Welding Procedure Qualification Test (WPQT), Factory Acceptance Test, Transportation & Installation, pre-commissioning and commissioning. Currently, he is a Deputy Project Manager in company Sapura Energy Berhad attach with Engineering & Construction – Operations managing the EPCIC and T&I projects.

Ir. Nik Mohd Hasmizie serves as the current Chairman of the Marine Engineering & Naval Architecture Technical Division of the Institution of Engineers Malaysia (IEM). He is a certified Welding Inspector (CSWIP 3.1) and Radiographic Interpreter (CSWIP 3.4) of the CSWIP, United Kingdom.

BENEFITS

- Understand the relevant of welding technology related to steel fabrications
- Able to recognize characteristics of commonly used welding processes in relation to quality control
- Able to interpret drawing instructions and welding symbols to ensure that specifications are met
- Understand the application of welding consumables for specific applications and consumable handling
- Aware of the engineering codes and standards related to welding and inspection requirements
- Able to identify various weld imperfections (defects)
- Understand factors which influence the quality of fusion welds in steels
- Able to carry out visual inspection of welds, report on them and assess their compliance with specified acceptance criteria

WHO COULD BENEFIT FROM THE COURSE

All engineers who need basic training in welding inspection; Inspectors / QA & QC Inspectors & Engineers / Engineers / Inspection Engineers who undertake the visual examination of welded joints or involve in construction projects; Quality Control / Quality Assurance staff associated with welding and construction; Government and Non-government officers; Anyone responsible for or involved in engineering & construction project.

COURSE SCHEDULE & OUTLINE

Day 1		Day 2
0830 - 0900	REGISTRATION	REGISTRATION
0900 - 1030	<ul style="list-style-type: none">• Introduction to Welding• Type of Welding Joint and Welding Positions	<ul style="list-style-type: none">• Welding Defects and Repair
1030 - 1045	MORNING TEA BREAK	MORNING TEA BREAK
1045 - 1300	<ul style="list-style-type: none">• Welding Process and Technology (SMAW, MIG, TIG, SAW, FCAW)	<ul style="list-style-type: none">• Duties of Inspection Engineers / Welding Inspector• Inspection Tools
1300 - 1400	LUNCH BREAK	LUNCH BREAK
1400 - 1530	<ul style="list-style-type: none">• Welding Symbol and Drawing Instructions	<ul style="list-style-type: none">• Welding Procedure Qualification Test (WPQT)• Welder Qualification Test (WQT)
1530 - 1545	AFTERNOON TEA BREAK	AFTERNOON TEA BREAK
1545 - 1630	<ul style="list-style-type: none">• Welding Consumables	<ul style="list-style-type: none">• Non-Destructive Test & Radiographs
1630 - 1730	<ul style="list-style-type: none">• Welding Distortion• Q & A	<ul style="list-style-type: none">• Mechanical Test at Laboratory• Q & A