

SYNOPSIS OF THE COURSE

The course provides basic knowledge and understanding of design requirements to engineers in selecting proper welding technology for pressure vessel manufacturing and structural design. In the course participants will gain basic understanding of the following: -

- a. welding symbols in accordance to AWS A 2.4 and BS EN 22553 (ISO 2553)
- b. behaviour of welded structures under different types of loading
- c. factors affecting fatigue and types of fractures failure
- d. design principles for static pressure vessels and aluminum structures

FACILITATOR

IAN PARTRIDGE

Ian Partridge is a Chartered Engineer (CEng) and a Member of the UK Institute of Mechanical Engineers (MIMechE). He has twenty years experience in equipment risk consulting including conducting life assessment, failure investigations and fitness-for-service (FFS) assessments on installations such as large scale pressure vessels and rotating machinery particularly in the Oil & Gas and Power generation sectors. Ian has developed and validated FFS procedures for international standards and best practice guidelines. Some of his recent projects include the

- fitness-for-service (FFS) evaluation of an extensively chloride stress corrosion cracked column
- life assessment and extension of waste heat boilers
- risk-based inspection (RBI) of storage tanks
- creep-fatigue assessment of high temperature headers
- development of storage tank annular assessment methodology

Ian is currently the Regional Engineering Manager of TWI Services Sdn Bhd where he manages and develops TWI's engineering services in this region. As a specialist engineer and consultant, he has been involved in several FFS, RBI and life assessment projects for several Oil & Gas and Power generation companies in Malaysia and Indonesia.

Ian has also represented TWI Ltd, UK on various international standards committees and published several papers in the above fields for the Oil & Gas and Power generation industries.

21 FEBRUARY 2011 (MONDAY)		
08.00 -08.30	REGISTRATION	
08.30 - 09-30	Welded Joints Terminology	
09.30 - 10.15	Weld Preparations	
10.15 - 10.30	TEA BREAK	
10.30- 01.00	Weld Symbols	
01.00 - 02.00	LUNCH	
02.00 - 03.00	Residual Stresses	
03.00 - 03.15	TEA BREAK	
03.15 - 04.30	Aluminum Structural Design	
04.30- 05.00	Question & Answer	

22 FEBRUARY 2011 (TUESDAY)		
08.30 - 10.00	Material and Properties	
10.00 - 10.15	TEA BREAK	
10.15 - 11.30	Design Stress	
11.30 - 01.00	Pressure Vessel Manufacturing	
01.00 - 02.00	LUNCH	
02.00 - 03.00	Models of Failure	
03.00 - 03.15	TEA BREAK	
03.15 - 04.45	Fatigue Improvement Techniques	
04.45 - 05.00	Question and Answer	
04.45 - 05.00	Question and Answer	

REGISTRATION FORM (03 - 79577678)

Name :	Membership No :
Organization :	Tel :
Mailing Address:	
Email :	

Enclosed herewith a crossed Cheque/bank draft/money order No...... for the amount of RM..... issued in favour of "The Institution of Engineers, Malaysia" and crossed "A/C Payee Only". I / We understand that the fee is not refundable if I / We withdraw after my/our application is / are accepted by the Organising Committee but substitution of participants will be allowed. If I / We attend the course, I/We will still settle the registration fee in full. A course completion certificate will only be issued upon the complete two days' attendance.

DATE

SIGNATURE