

***Welding Technology – Applied Welding Processes, Design,
Materials, Fabrication and Applications*****Training Date:** 04th – 08th March 2012 (5 Days) **Training Time:** 07.30 – 14.30 hours**Training Venue:** Dubai, UAE**Training Fee:** USD3,500 per participant***COURSE OVERVIEW***

Welding Technology is continuing to grow, and the technology is becoming more complex. Welding continues to grow because it is the most economical method of permanently joining metals. The implementation of effective knowledge in welding technology can significantly reduce this impact, resulting in substantial savings to companies whilst improving customer relations and reducing the impact on the profitability of any business. This interactive training program will provide course members with comprehensive knowledge and skills on the application of welding technology involved in the fabrication industry.

Upon completion of the training course, attendees will have received a thorough insight into the entire process of welding technology as a quality control function and how best to manage these processes. They will have gained a good understanding of the interactions between welding processes, welded joint design, materials behaviours and fabrication and their applications in order to bring significant benefits to the individual and their company alike.

WHO SHOULD ATTEND?

- Welding design engineers
- Materials / corrosion Engineers
- Welding engineers/ supervisors
- QA/QC / inspectors and engineers
- Plant and process Engineers
- Metallurgical / inspection engineers
- Non Destructive engineers/Technician
- Mechanical /Maintenance engineers
- Sales/Purchase engineers who deal with weld and welding

COURSE OUTCOMES

After the course the participant will be able to:

- Understand the terminology used in welded fabrication.
- Understand joining and cutting principles and process selections.
- Understand the physics and heat flow of welding
- Understand the control of consumables – storage, handling and their treatment
- Understand the welding metallurgy and weldability of ferrous and non ferrous materials
- Understand the basic design for welded joint – static and dynamic for various materials
- Understand the symbols for welding and inspection in a welded fabrication.
- Understand the causes of residual stresses and distortion in a welded fabrication
- Understand the usage of position and fixtures and workshop layout.
- Appreciate the importance of weld quality, imperfections and their preventions.
- Appreciate metallurgical and mechanical properties of a welded joint.
- Appreciate the testing for evaluation of welded joint
- Appreciate the codes and standards
- Appreciate the requirements for WPAR, WPS and Welder qualification test
- Assess documentation for compliance in relation to the requirements of qualification standards.
- Understand inspection involved in welded fabrication, inspection plan, on Destructive Testing and Destructive Testing.
- Understand health and safety requirements related to welding.

Course Outline

- Terms, definitions, abbreviations and acronyms
- Energy sources in welding, arc characteristics, gases
- Fundamentals of heat flow in welding.
- Fusion welding processes – their principles of operation, typical imperfection, advantages and disadvantages
- Control of welding consumables, process control and in process monitoring
- Welding metallurgy – weldability of commercial alloys.
- Properties of metals
- Welded design considerations for static and dynamic loading
- Weld symbols on drawings and communication, interpretation of design requirements.
- Residual stresses and weld distortion control and technique
- Fixtures and positioners, workshop layout and facilities
- Weld quality – causes and remedies for fusion welded joint
- Codes and other standards
- Qualification and certifications – qualification of welding procedure and performance requirements
- Application of non destructive testing, survey of methods and their applications.
- NDT procedures, Qualification of personnel, assessment of reports, quality requirements for welding
- Safe practices for welding – fumes, gases. handling of equipment, electrical safety and confined spaces.

SELECTED CUSTOMERS



About the Course Instructor

Mohd Faisal Yusof has over 15 years experience of welding engineering and one of his main filed is providing training, examination, and consultancy. Faisal's academic achievement include European/IIW/TWI Welding Engineer, Technologist and Specialist. He also holds other quality assurance and quality control and inspection competence based qualifications.

Prior to this, Faisal was a Training Manager for the welding inspection and welder training department of a well-known organization that offers training and examinations in South East Asia for many years. He was involved in variety training for Diploma courses for European and international Diplomas, CSWIP welding inspector and welders in Malaysia and overseas. He has extensive knowledge in welding technology, welding processes, materials behaviour, Design and construction, quality assurance, quality control, inspection and welding procedures.

Professional Strength

- Extensive knowledge in welding processes, design, metallurgy ,quality assurance and quality control.
- Ability to solve complex welding problem in a welded joint.
- Extensive knowledge in heat treatment processes for materials.
- Extensive knowledge of designing techniques, tools, and principles involved in production technical plans, blueprint, and drawings
- Extensive knowledge in mechanical testing involved for welding procedure approval and welder approval.
- Extensive knowledge in selection appropriate consumables for materials to be welded.
- Familiar with quality control, production processes, costs, and technique in increasing effective manufacture and distribution of goods.
- Familiar with codes and standards such as ASME,BS EN ISO,AWS and API.
- Familiar with Non Destructive Testing such as UT, RT, MT, PT, TOFD, Phase Array, Eddy current etc.
- Extensive experiences in providing training for Engineer, Inspectors and welders.

Registration Form

Please Send Your Registration To:

Tel:	006.013.208.2143	Fax:	006.09.617.8443	E-mail	info@cfpets.com
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Course Details

Course Name:	Welding Technology – Applied Welding Processes, Design, Materials, Fabrication and Applications	Course Date:	22 – 26 Jan., 2012
Venue:	Holiday Villa Hotel, Doha, Qatar.	Fee:	USD3,500.00

Company Information

Organization	
Address	

HR / Training Manager

Invoice to be sent to

Name :		
Tel no.:		
Fax no.:		
E-mail :		

Participant Information

	Participant # 1	Participant # 2	Participant # 3
Full Name :			
Job Title :			
Department :			
Telephone No. :			
Mobile No. :			
Fax No. :			
E-mail Address :			

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