

Welding Metallurgy Course

Training Date : 06 – 10 May, 2012

Training Venue : Holiday Villa Hotel, Doha, Qatar

Training Time : 0730 – 1430 Hours

Training Fee : USD3,500.00

COURSE OVERVIEW

Welding Metallurgy forms an integral part of any business operating in the fabrication and welding environments which sometimes unfortunately commonly become contentious between contracting parties. The implementation of effective welding inspection as a quality control system, 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 quality control and welding inspection involved in the fabrication industry, as well as provide them with the concepts and principals of the welding technology that surrounds welding inspection and quality control.

Upon completion of the training course, attendees will have received a thorough insight into the entire process of welding inspection as a quality control function and how best to manage these processes. They will have gained a good understanding of the interactions between welding inspection, welding technology, quality control and visual inspection of welded joints to be able to bring significant benefits to the individual and their company alike.

WHO SHOULD ATTEND?

- Welding design engineers
- Welding engineers/ supervisors
- Quality control/ inspection 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 you will be able to:

- Understand the terminology used in welded fabrication.
- Understand the arc welding processes and their applications.
- Understand the selection of consumables for arc welding process
- Understand the structure of a pure metal.
- Understand the objectives of alloy and phase diagrams.
- Understand the properties of a welded joint and common destructive testing.
- Understand the types of corrosion in service..
- Understand the weldability of ferrous and non ferrous materials.
- Understand the weldability problems when joining dissimilar materials
- Understand the weldability problems when welding clad materials.
- Understand the important of QA/QC in welded fabrications
- Understand the objectives of welding procedure approval
- Understand the objectives of welder and welding operator approval
- Understand the ITP,weld map and doc pack
- Appreciate the methodology of welding symbols and how to interpret an engineering drawing.
- Understand health and safety requirements related to welding.

Course Outline

- Terms, definitions, abbreviations and acronyms
- Structure of pure metal
- Alloy and phase diagrams.
- Structure of welded joint
- Materials testing
- Heat treatment
- The arc physics and heat flow in welding
- Welding processes and control – fusion and pressure welding
- Welding and joining metallurgy
- Weldability of carbon steel
- Weldability of High Strength Low Alloy steel (HSLA).
- Weldability of Creep resisting steel.
- Weldability of Cryogenic steel
- Weldability of Stainless Steel
- Weldability of Aluminium and its alloy
- Weldability of Titanium and its alloy
- Weldability of Nickel and its alloy
- Weldability of cast iron
- Weldability of copper and its alloy
- Weldability of dissimilar joint
- Weldability of clad materials
- Weld joint design
- Quality assurance and control in welded fabrications
- Residual stresses and distortion
- Welding symbols
- Welding economics
- Welding procedure and welder approval.
- Application of non destructive testing, survey of methods and their applications.



SELECTED CUSTOMERS

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ORYX GTL
QP - SASOL joint venture

ALSTOM

ارامكو السعودية
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About the Course Instructor

Engr. 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 developing a welding procedure in various types of materials for ferrous and non ferrous according to American and European codes and standards.
- Extensive knowledge in welding processes, weld joint design, metallurgy and quality assurance and safety.
- Extensive knowledge in selecting Non Destructive Testing method for welded fabrication such as PT, MT, RT, UT, TOFD, Phase array and Eddy current.
- Extensive knowledge in providing training for Engineer, Inspectors and welders.

About CfPE Technology Solutions

The Center for Professional Enhancement Technology Solutions (known as CfPE Technology Solutions) is incorporated in July 2001 and began as a training and consulting company for power plant, oil & gas and petrochemical sectors in Malaysia.

With a small team of experienced and dedicated engineers and multi skilled technical staff we have come a long way. From those humble beginnings, we have successfully grown and today we have achieved reorganization as a premier in organizing short training in Malaysia.

Our professional experience and excellent consulting strengths provide insights and understanding of the challenges facing the industries we serve. CfPE Technology Solutions aims to make a difference.

The need for leading-edge training has intensified and is advancing beyond all expectation; it is the basis upon which performance can be measured in an increasingly competitive marketplace.

In the world of today, it is not simply a case of having the necessary professional skills; people must develop interpersonal skills alongside their ability to handle the changes brought about by technological progress.

We expect the people who attend our training courses to make an immediate impact, both back at the workplace and in their career and personal development.

CfPE Technology Solutions is a training and consulting company dedicated to increasing our client's competitive edge through the improved performance of their human and capital assets. We aspire to make significant and lasting improvements in our clients' strategic focus and business performance.

CfPE Technology Solutions' mission is to assist and enable world-class companies to increase productivity and performance through their most vital assets - the workforce.

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 Metallurgy	Course Date:	06 – 10 May, 2012
Venue:	Holiday Villa Hotel, Doha, State of 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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CFPE TECHNOLOGY SOLUTIONS

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