

QA/QC Welding Inspector Course**Training Date:** 11-15 June, 2012 (5 Days)**Training Venue:** Kuala Lumpur, MALAYSIA**Training Time:** 0900 – 1600 hours**Training Fee:** USD 3,500 per participant**COURSE OVERVIEW**

Welding inspection 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.
- Appreciate different type of joint designs related to the different types of load and applications.
- Understand modes of failures.
- Appreciate a broad range of welding technology and its interaction with welding auditing.
- Confirm the role, responsibilities and duties of a welding assessor/auditor.
- Appreciate the needs for QA, QC and inspection within a fabrication and welding organisation.
- Understand the problems and controls required when welding different types of materials.
- Understand arc welding process principles and process selections.
- Understand the control of consumables – storage, handling and their treatment.
- Appreciate metallurgical and mechanical properties of a welded joint.
- Appreciate the requirements for WPAR,WPS and Welder qualification test
- Assess documentation for compliance in relation to the requirements of qualification standards.
- Identify common weld imperfections, their causes and avoidance.
- Understand the weldability problems when welding ferrous and non – ferrous materials.
- Appreciate the methodology of welding symbols and how to interpret an engineering drawing.
- Understand health and safety requirements related to welding.
- Be able to report on the acceptance or rejection of welded products and offer constructive feedback.
- Be able to carryout welding audits effectively and efficiently.

Course Outline

- Terms, definitions, abbreviations and acronyms
- Behaviour of welded products
- The role and responsibilities of a QAQC welding inspector.
- Auditing procedures,
- Practical skills development of auditing
- Planning of objectives, organizing, hands on experience, case studies, health and safety in welding
- Assessing the welding and cutting equipment, assessment and fitness for purpose
- Hand on of physical assessment and reporting.
- Weld symbols on drawings and communication, interpretation of design requirements.
- Manual, semi-automatic, mechanised and automated welding processes
- Welding process control, deviation from WPS requirements, implications, calibration and validation
- Application and equipment requirements, measurement of parameters and practicalities
- Control of welding consumables, process control and in process monitoring
- Welding procedure and welder qualification testing: essential variables and their control, application of pre-heat, heat input and inter-pass temperature controls, deviation from procedure requirements and tolerances
- Welding procedure qualification documents, application and identification of essential variables, range of qualification, testing results and re-qualification requirements
- Interaction of the main qualification documentation, practical assessment of documents and reporting of findings
- Application of Codes and standards, survey of welding, welding inspection, NDT, QA and QC standards
- Contractual aspects versus code and standard requirements, assessment of documentation and verification of documents
- Hands on experience, Scrutiny of welding qualification documentation and guided case studies
- Manufacture and designation of steels.
- Weldability considerations, and controls required to avoid welding problems in steels and stainless steel.
- Application of non destructive testing, survey of methods and their applications.
- NDT procedures, Qualification of personnel, assessment of reports, quality requirements for welding
- ISO 3834 - introduction to the standard, other standards, welding coordination requirements and responsibilities



SELECTED CUSTOMERS



About the Course Instructor

Mr. 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:	006.013.2082143	Fax:	006.09.6178443	E-mail	info@cfpets.com
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Course Details

Course Name:	QA/QC Welding Inspector	Course Date:	11 – 15 June, 2012
Course Fee:	USD 3,500.00 per participant	Venue:	Kuala Lumpur, MALAYSIA

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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