Welding Inspection and Quality Control



Welding quality control is the process of ensuring that the welds produced meet the specifications and standards required for the product or structure. Welding quality control involves checking and testing the welding procedures, equipment, materials, and welds before, during, and after the fabrication process. This course is designed to equip students with the knowledge and skills required for effective welding inspection and quality control. Participants will learn about inspection techniques, quality assurance measures, industry standards, and best practices to ensure the integrity and reliability of welded components.

Training Outcome:

- Understand the importance of welding inspection and quality control.
- Learn about different welding inspection methods and their applications.
- Familiarize with industry standards and codes related to welding quality.
- Develop skills in interpreting welding inspection reports.
- Explore quality control measures to prevent welding defects and ensure compliance.
- Gain hands-on experience through practical exercises and case studies.

Education and/or Experience - Candidates having basic understanding on QA/QC having technology or engineering background is an advantage. All inspectors, tenured welders want to grow their career in the field of welding inspection and QA/QC shall attend this course.

Examination - Each candidate must successfully pass a 30 question, multiple-choice examination that evaluates the candidate's knowledge of the topic.

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1.	Introduction to Welding Inspection and Quality	4. Interpretation of Welding Inspection Reports
	Control	 Reading and understanding inspection reports
	Importance of inspection and quality control in welding	 Identification of welding defects and discontinuities
	Role of welding inspectors and quality control	Reporting standards and documentation requirements
	personnel	5 Quality Assurance and Quality Control $(0A/0C)$ in
	Quantizer of such that dends and so dea (a.s. A)MO	5. Quality Assurance and Quality Control (QAVQC) In
	• Overview of quality standards and codes (e.g., AWS	weiding
	D1.1, ASME Section IX)	 Quality management systems (QMS) for welding operations
2.	Welding Inspection Techniques	QA/QC plans and procedures
	• Visual inspection: Basics, inspection criteria, limitations	 Control of welding processes and variables
	• Liquid penetrant testing (PT): Principles, application,	Non-conformance management and corrective actions
	interpretation of results	6. Industry Standards and Codes
	• Magnetic particle testing (MT): Techniques, equipment,	Overview of relevant standards (e.g. AWS ASME ISO)
	defect detection	Compliance with regulatory requirements
	Radiographic testing (RT): X-ray and gamma-ray	Compliance with regulatory requirements
	methods image interpretation	Impact of standards on weiging practices and quality control
	Illtragonia tasting (IIT), Dringinlag, aquinment, flow	7. Best Practices for Welding Quality Control
	• Onrasonic testing (OT). Principles, equipment, naw	 Welding parameter optimization
-	detection, thickness measurement	Material selection and preparation
3.	Welding Inspection Procedures	Welding technique improvements
	• Pre-weld inspection: Joint preparation, fit-up	Training and certification of personnel
	assessment	Coop Studies and Practical Evergices
	• In-process inspection: Monitoring welding parameters.	o. Case Situlies and Fractical Exercises
	defect prevention	 Analysis of real-world welding inspection challenges
	 Post-weld inspection: Visual NDT and dimensional 	Hands-on exercises in visual inspection, PT, MT, RT, and UT.
	checks	 Application of QA/QC principles in welding projects
	Molding procedure qualification (M/DO) and wolder	
	• weiging procedure qualification (WPQ) and weiger	
	qualification testing (WQT)	

Who should attend this training Program

Candidates having basic understanding on different types of welding, QA/QC inspectors, Welders and other artisans want to grow their career in the field of welding inspection and QA/QC shall attend this course.

ADMISSION PROCESS

Applications will be screened with regard to their suitability for each program. Kindly ensure that your complete online application form reaches the office by the deadline.

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Payment

Payment is due upon receipt of the acceptance letter along with the invoice. Please ensure that the payment reaches the office BEFORE the start of the program. Space in the program may only be ensured after we receive the fee.

Account Title:	FANCO Industrial Solutions (For Local Payments)	
	FANCO Solutions LLC (USA – For International Payments)	
Account Number:	Will share on invoice	

"in addition to our contract price, 16% Punjab Sales Tax (PRA) will also be applicable as per Punjab Sale Tax on Services Act 2012."

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