

TRINITY NDT WELDSOLUTIONS PVT. LTD.

Aerospace and Advanced NDT | Centre of Excellence in Welding | Training

Welding Course Outline

Welding Inspection
Course

Brochure

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Welding Inspection Course Overview

The primary objective of this course is to equip participants with a comprehensive understanding of welding inspection techniques, quality control standards, and industry best practices essential for ensuring the safety and integrity of welded structures. Upon completion, students will be able to identify common welding defects such as porosity, cracks, undercut, and incomplete fusion, and apply both visual and non-destructive testing (NDT) methods.

The course also aims to familiarize participants with relevant codes and standards, such as AWS D1.1 and ASME Section IX, enabling them to interpret technical specifications and maintain compliance in industrial settings. Ultimately, graduates will be prepared to serve as competent welding inspectors capable of making critical quality decisions, writing accurate inspection reports, and contributing to a culture of safety and excellence in welding operations.

Eligibility for the Course

To enroll in this welding inspection course, candidates are expected to hold a minimum educational qualification of a Diploma or Bachelor's Degree in Mechanical Engineering, Metallurgy, or a related technical discipline. Candidates with an equivalent trade certificate or vocational qualification in welding technology are also encouraged to apply, provided they demonstrate a solid foundational understanding of welding processes and materials. In terms of experience, a minimum of two to three years of hands-on work experience in the welding industry — whether in fabrication, manufacturing, or a related field — is preferred.

Course Outline

1. Duties of Welding Inspector
2. Welding Metallurgy
3. Welding Imperfections
4. Welding Gauges & Instruments
5. Welding Processes: SMAW, GMAW, FCAW, TIG
6. Consumables
7. Weld Symbols & Terminology
8. Basics of NDT & Destructive Testing
9. WPS, PQR & WPQ

Practicals

Using Welding Gauges inspection of Butt, Fillet, pipe, plate welds, evaluation of results as per ASME, API, ISO codes for acceptance.

Course Duration

03 Days

For more information, Contact us

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