

**Webinar for Overview Program on Understanding Welding Variables, Tests and Preparation of WPS as per ASME Section IX for GTAW and SMAW Processes**  
Date : 20th December 2020, Time: 10:00 AM to 1:00 PM



**Course Features**

Welding qualifications are indispensable in the quality assurance during the construction of pressure retaining parts and vessels by welding. This introductory course provides the understanding of Essential, Non-essential, Supplementary Essential Variables and effect of material, thickness, PWHT, Impact properties on qualification range, also preparation of PQR / WPS for use in construction for commonly used welding processes GTAW & SMAW

**Course Objectives**

This course help delegate to understand welding variables, their effect on range of qualification and preparation of PQR / WPS for use in construction

**Who should attend?**

- ♣ QA / QC, Production, Welding Engineers and Manager,
- ♣ Representatives of Inspection agencies
- ♣ Representative of Pressure Vessels Manufacturers
- ♣ Representatives of industry who use welding as joining process

**Issue of Certificate**

Certificate of successful attendance shall be issued to all the delegates who attend entire duration of the course.

**Registration Fee : Rs. 1,500 + 18 % GST Per Participant**

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**Course Contents**

- ♣ Introduction of ASME Section IX
- ♣ ASME Section IX & other Construction Code Interrelationship
- ♣ Article I- Part QG Welding Requirements
  - WPS, PQR, and WPQ
  - Essential, Non-essential & supplementary essential variables
  - Test Positions - QW-120 and QW-130
  - Types and Purposes of Tests and Examinations - QW-140
  - Tension Test - QW-150
  - Guided-Bend Tests - QW-160
- ♣ Article II - Welding Procedure Qualifications - QW-200 - General
  - Welding Procedure Specifications (WPS) - QW-200.1
  - Procedure Qualification Record (PQR) - QW-200.2(a)
  - WPS Variables - Tables QW-253 and Table QW-256
  - Understanding of Welding Data as per QW-253 and QW 256 and preparation of PQR / WPQ
- ♣ Article III Welding Performance Qualifications
  - Qualification Test Coupons
  - Retests and Renewal of Qualification
  - Welding Variables for Welders



**Duration:** 180 Minutes (3 Hours)



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