



ASME Section IX Welding Qualifications

HSB, a Munich Re company, is a technology-driven company built on a foundation of specialty insurance, engineering, and technology, all working together to drive innovation in a modern world.

Course description: This one-day training course is a basic introductory overview of the Section IX Welding Requirements Code book. It focuses on the ASME Certificate Holder engaged in welded construction, and Repair Organizations working on ASME Code pressure retaining items under the NBIC.

Topics covered

Correlation to Construction Codes

Acceptable Welding Processes

Requirements for WPS and Welder Qualification

Manufacturers' Responsibilities for Qualification

Inter-Company Welding Procedures

Procedure and Qualification Ownership Transfers

Standard Welding Procedure Specifications

Welder Performance Qualification

- Welder Identification
- Welder Continuity
- Requalification and Recertification
- Simultaneous Qualifications

Test Coupon Types

- Position
- Joint Type
- Product Forms

Conducting a Qualification Test

- PQR
- WPQ
- Test Specimen Preparation
- Test Specimen Evaluation and Acceptance

Ranges and Limits of Qualifications

Required Qualification Tests

- Tensile Strength
- Guided Bend
- Notch Toughness
- Radiography
- Tube to Tubesheet
- Visual Examinations

Welding Documents

- Contents, Preparation, and Revision
- Welding Procedure Specification
- Welding Procedure Qualification Record
- Welder Performance Qualification Record
- Standard Welding Procedure (SWPS) Discreet Demonstration of Record

Welding Variables

- Essential
- Supplementary Essential
- Nonessential
- Special Process
- Welder Performance
- Machine and Automatic Welding

WPS Applicability

- P-Numbers
- F-Numbers
- A-Numbers

WPS/PQR Interrelationships

Continued Validity of WPS and WPQ WPS Combination and Separation

Dissimilar Thickness Welding

WPQ Welder Qualification Ranges for Production

For more information, contact GetInfo@hsb.com