

## ASME Code Section IX - Qualification of Welding Procedures and Welders

**Description:** In the international plant engineering business ASME Code Section IX is the most often used standard for the qualification of welding procedures, welders and welding operators as well as brazing procedures and brazers. This workshop exclusively covers the topic of welding and familiarizes the participants with qualification of welding procedures and welders as required by the ASME Code Section IX. By means of practical exercises the basic requirements of ASME Code Section IX will be demonstrated. During the workshop the participants gain the necessary knowledge to independently prepare and/or review Procedure Qualification Records (PQR), Welding Procedure Specifications (WPS) and Welder/Welding Operator/Performance Qualifications (WPQ/WOPQ)). The participants are invited to take an active part in this workshop.

**Duration:** 2 days

### Key Points of the Workshop:

- structure and application of ASME Code Section IX
- basic requirements regarding the qualification of welding procedures and welders
- documentation: Procedure Qualification Record (PQR), Welding Procedure Specification (WPS), Welder Performance Qualifications (WPQ) and Welding Operator Performance Qualification (WOPQ)
- scope and variables of different welding procedures
  - "essential variables" and "nonessential variables"
  - impact test requirements and "supplemental essential variables"
- qualification of welders and welding operators
  - manual and semiautomatic welding
  - machine and automatic welding
- scope and variables for welders
- exercises:
  - reviewing of Procedure Qualification Record (PQR)
  - reviewing of Welding Procedure Specification (WPS)
  - reviewing of Welder Performance Qualifications (WPQ) and Welding Operator Performance Qualification (WOPQ)
  - preparing of Procedure Qualification Record (PQR)
  - preparing of Welding Procedure Specification (WPS)
  - preparing of Welder Performance Qualifications (WPQ) and Welding Operator Performance Qualification (WOPQ)

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