



Adresse : Cité 11 Décembre 1960 N° 120
2ème Etage Baba Hassen- ALGER
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BATEN RABAH
Consultation, Training,
Contracting & Evaluation
Training Programme

Asme IX & API 1104

Description:

Write and Qualify a WPS in according to ASME IX & API1104.

Prerequisites: welding technology basic desirable

Course Material: All manuals, handouts, and textbooks will be provided which will become the property of the trainee.

Classroom hours : 3 days (24h)

Topic outline :

- **Module 1: Code Basics**
- **Module 2: Welding Process Basics**
- **Module 3: Metallurgy & Welding**
- **Module 4: WPS Qualification Variables**
- **Module 5: Developing a WPS**
- **Module 6: Qualifying Welding Personnel**

Courses content :

- **Introduction of welding and codes**
- **WPS, PQR and WPQ Definition as per Section IX**
- **Manufacturer Responsibility Regarding Welding**
- **P, F, A numbers / Group Number**
- **Essential, non-essential and supplementary essential variables**
- **SFA Specification and AWS Classification**
- **Write and Qualify a WPS without Impact Testing Requirements**



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- Discuss Welding variable (Joint Design, Base Material, Wall Thickness Range, Filler Metal, Position, Pre-heat Temp, Interpass Temp, PWHT Temp and Holding Time, Gas or Flux, Electrical Characteristics, Technique, etc.)
- Welder and Welding Operator Performance Qualification
- Qualifying with the Volumetric Method or Mechanical Testing / Requirements
- Qualified Positions, Pipe diameter, Wall Thickness, etc.
- Standard WPS's
- Write and review a WPS with Impact Test Requirements