

ASME IX Code "Welding Qualifications" Simplified



INTRODUCTION

This course gives participants coming from Engineering, Manufacturing, Repair and Testing Companies a comprehensive overview about the ASME IX Code "Welding Qualification" and prepares them to fully comply with Code Requirements.

After completion of this workshop-like training course the participants will be able to handle code-related welding certification tasks like creating and interpreting WPS, PQR, WPQ etc. In understanding and interpreting the Code requirements correctly makes project executions and the company's operation more efficient and profitable.

WHO SHOULD JOIN

This class is designed for Pressure equipment Manufacturer, Inspectors of Plant Construction & Inspection companies, Engineers working in refineries, chemical, industrial & gas plants and oil fields.

SPEAKER'S BACKGROUND

Mr. Lutz Seibt is presently the Director of IDC Plant Technology Sdn Bhd. He has 16 years hand-on experience as an Authorized Inspector and Auditor acc. to German Pressure Vessel (AD Merkblaetter), Boiler (TRD) and Storage Tanks Codes, Pressure Equipment Directive (PED), Transportable Pressure Equipment Directive (TPED) and European Construction Material Directive; 9 years out of it within TUV's International Business Unit in Asia Pacific.



He has given training sessions on Pressure Equipments and German Pressure Vessel Standards for instance in Malaysia, Singapore, Korea and China. The recent trainings he has conducted in year 2008 include:-

- ◆ European Pressure Equipment Directive
- ◆ ASME IX Code "Welding Qualifications" Simplified
- ◆ ASME VIII Division 1 "Pressure Vessel Calculation & Design"
- ◆ ASME VIII Division 1 "Pressure Vessel" Code Simplified

OBJECTIVES

The course provides participants with the knowledge necessary to:

- ◆ Understand and Interpret code requirements and effectively use the ASME IX code.
- ◆ Effectively make cross-references to internal and external code requirements.
- ◆ Encourage the participants to take all necessary precaution in preparing, executing, reviewing and interpreting welding qualification documents in reference to ASME VIII and various other codes and standards like "The National Board Inspection Code", API-510 (Pressure Vessel), API 570 (Piping Systems), API-653 (Storage Tanks) etc..

TESTIMONIAL

"What I like most about the Training is the SIMPLIFICATION."

"After explained by the Trainer, I am more familiar with the ASME code. I found that ASME is not as difficult as we thought. Makes our life simpler and easier."

"Before I attend this Training, my knowledge about ASME is very poor. Now, I am self-motivated to get to know more about ASME, quite interesting."

"The presentation material is neat and almost complete; especially the little note given to stick onto the ASME code, very helpful!"

"Putting the color tabs on the codes make it simpler to look into. Presentation by Lutz is good and understandable."

"The lesson is quite interesting!"



Organized by:

IDC
Training House Sdn Bhd

594752 (M)

HRDF Approved Training Provider (A0470)
Ministry of Finance (Reg. No 357-02088676)

Updated on 13 January 2010

ASME IX Code

"Welding Qualifications" Simplified



DAY 1

- 1) **Welcome & Introduction**
- 2) **Introduction into the ASME System**
 - ◆ Purpose of the Code
 - ◆ Scope of the Code
- 3) **Structure of Section IX**
 - ◆ Organization of the Code
 - ◆ Responsibilities
 - ◆ Key terms discussed in the Code
- 4) **Welding Processes**
 - ◆ Different Welding Processes
 - ◆ Workshop
- 5) **Welding Joint Design / Welding Positions**
 - ◆ Butt welds / Fillet welds / other designs
 - ◆ Understand different welding positions
 - ◆ Workshop
- 6) **Welding Consumable acc. ASME II, Part C**
 - ◆ Types of Electrodes
 - ◆ Electrode Classification System
 - ◆ Electrode Storage
 - ◆ Shielding Gases
 - ◆ Fluxes
 - ◆ Workshop

DAY 2

- 7) **Welding Procedures**
 - ◆ 5 Steps of developing a WPS
 - ◆ Essential, Supplementary & Nonessential Variables
 - ◆ PQR
 - ◆ Mechanical Testing
 - ◆ Range of Qualification
 - ◆ Changes of welding parameters
 - ◆ Workshop
- 8) **Welder Qualifications**
 - ◆ Qualification
 - ◆ Essential & Nonessential Variables
 - ◆ Test pieces
 - ◆ Methods of testing
 - ◆ Welding Continuity List
 - ◆ Workshop

DAY 3

- 9) **Practical exercises**
 - ◆ Review of WPS
 - ◆ Review of WPQ
- 10) **Examination (3 hours)**

BRING TO CLASS

Students should bring to class:

- ◆ ASME IX (2007) - Hardcopy
- ◆ A calculator
- ◆ Lots of questions and a "CAN-DO" attitude.

CLASS SIZE

Enrollment is limited to 20 students.

DAILY SCHEDULE

3 DAYS ~ 9:00a.m. – 5:00p.m. (Workshop)
Day 1 Registration from 8:30a.m.



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