

Inspection Summit 2015



Optional Training Courses - January 26, 2015

Welding Procedure Prep/Review Based on ASME Section IX (8 Hours)

Trainer: Robert Yagle

This eight hour presentation will provide an overview of the 2013 Edition of ASME Section IX – Welding Qualification. Attendees are encouraged to bring the 2013 Edition of ASME Section IX as it will not be provided.

The discussion will include:

- Part QG – General Requirements
- Part QW – Welding including:
 - Article I – Welding General Requirements
 - Article II – Welding Procedure Qualifications
 - Article III – Welding Performance Qualifications
 - Article IV – Welding Data
 - Article V – Standard Welding Procedure Specifications (SWPSs)

The presentation will include reviewing a Welding Procedure Specification (WPS) and its Procedure Qualification Record (PQR) answering four basic questions:

1. Is the Welding Procedure complete?
2. Is the Welding Procedure supported?
3. Is the Welding Procedure qualified?
4. Is the welding Procedure certified?

The workshop will also determine and document, on a Welders Performance Qualification (WPQ) form, the range of qualifications for the welder who welded the test coupon for the WPS qualification.

API 571 (8 Hours)

Trainer: Marc McConnell

The Basic Corrosion Course focuses on corrosion and the potential problems caused by corrosion. Our goal is to provide the participants with an understanding of why and how corrosion occurs, the metallurgical and environmental factors influencing corrosion, and practical methods of corrosion control and failure prevention. It provides a basic but thorough review of causes of corrosion and the methods by which it can be identified, monitored, and controlled. Participants will be able to grasp the basic concepts related to corrosion, metallurgy and failure analysis, and to apply the state of the art technology in their workplace.

Proper selection of materials and design are most effective in curbing the cost of corrosion and achieving low cost reliability as corrosion can be designed out of the system. It is always easier and cheaper to erase lines on a drawing than to repair and replace failed equipment or components in service. The theme throughout the course is how to put the right material in the right place in the right way. Practical rules in selection of materials and design guidelines against many different types of corrosion will be presented. Numerous case histories of real-life problems and practical solutions will be discussed.

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We will also address the concept of controlling operations with a set of operating ranges and limits to achieve product specification and safe operation with the overarching objective of maintaining the integrity or of process containment.

Active participation is encouraged.

Positive Material Identification (PMI) API-RP 578 (4 Hours)

Trainer: Don Mears

This (4) four hour Training Course offers the reasons, purpose and criteria behind the global need to perform Positive Material Identification (PMI), according to API RP 578 in today's Petrochemical Oil & Gas Industry.

Topics covered include, but are not limited to: PMI using Portable X-Ray Fluorescent (XRF) and Optical Emission Spectroscopy (OES) Technologies for: New Construction QA/MVP Programs, Existing Piping Systems, Control of Incoming Materials & Warehouse, Element of Maintenance Systems, and Reporting with Test Records. This training course will address the Upstream, (Off Shore and Transportation) Sectors, Downstream (Refining and Petrochemical) Sectors, with emphasis on Government regulations and enforcement events by: (OSHA, EPA, BSEE, NTSB, and PHMSA / DOT).

B31.3 Intro for Inspectors (4 Hours)

Trainer: Chuck Becht

This course provides a broad overview of the requirements of ASME B31.3 and the philosophy behind the rules. The course is oriented to an inspector audience, so while subjects such as piping flexibility will be discussed in the context of what the Code requires, details as to how those calculations are performed and the development of those rules will not be covered. Fabrication, examination, inspection and testing rules will be covered in detail. Interpretations that have been issued on inspection related subjects will be used for group discussion. The course is taught by Dr. Charles Becht IV, who has been a member of ASME B31.3 since 1987, was Chairman of the committee for six years, and wrote the ASME book, *Process Piping, The Complete Guide to ASME B31.3*.