ASME B31.3 Process Piping – Design, Construction, and Mechanical Integrity

Potential PDH: 28

Description:

Participants will gain insight into key topics, including piping codes, material selection, pressure design, flexibility analysis, fabrication, installation, and in-service inspection. Whether you're new to process piping or looking to refine your expertise, this course will equip you with the essential knowledge to enhance safety, efficiency, and compliance in your operations.

Outline:

- Introduction to Piping Codes
- Fluid Service Category definitions and applications
- Materials
- Metallic Pipe, Valve, and Fitting Selection
- Pressure Design (metallic)
- Introduction to Bellows, Flexibility, Reaction, and Supports
- High Pressure Piping
- High Purity Piping
- Fabrication and Installation
- Inspection, Examination, and Testing
- Inservice Piping Inspection, Repair, Alterations, and Rerating

Who Should Attend:

Engineers, maintenance, quality assurance, inspection and manufacturing personnel who work with process piping (e.g., in the chemical, petroleum, plastic processing, pulp and paper fields) will find it a time-saving means to broaden and update their knowledge of piping.

Subject Matter Expert (SME):

John P. Swezy, Jr. is an ASME Fellow who has been a member of the ASME B31.3 Committee for 16 years and is the current Vice Chair, as well as the Chair of Subgroup Edit, and the upcoming Vice Chair of the B31 Piping Standards Committee. John has been working with ASME BPV Codes for 30 years as a member of ASME Section VIII, and Section IX, serving in various leadership roles of their supporting Subgroups. He was previously a contracted Instructor for ASME Learning and Development training

sessions for ASME B31.3, ASME Section VIII, Divisions 1 & 2, NBIC/API 510 Repairs and Alterations, and API579/ ASME FFS-1. As a staff technical expert for three different ASME accredited Authorized Inspection Agencies, and an Independent consultant doing business as Boiler Code Tech, LLC, John has seen and heard a lot in his career and loves helping Code users resolve compliance problems.

Don Frikken is an internationally recognized authority in piping design. Now employed by Becht Engineering, Don had been with Solutia, Inc. and Monsanto Company for 34 years; working on a wide range of activities including piping and mechanical design, project engineering, and engineering standards. Don's principal specialty is piping design, including design of complex piping systems, piping flexibility analysis, selection of piping components including valves, development of piping standards and specifications, and developing and teaching numerous piping seminars and workshops. He is an ASME Fellow and is active on various ASME standards committees. He is a member and past Chair of the ASME B31.3 Process Piping Code committee, a member and past Chair of the B31 Standards Committee, which oversees all B31 Piping Code committees, a member of the B16 Standards Committee, a past member of the ASME Board of Governors, and a past member of the Council on Standards and Certification, which oversees ASME's codes and standards development. Don has received many awards, including the ASME Melvin R. Green Codes and Standards Medal, which recognizes outstanding contributions to the development of documents used in ASME programs of technical codification, standardization and certification; the ASME B31 Forever Medal for Excellence in Piping; and the ASME B16 Hall of Fame Medal. Don graduated with a bachelor's degree in mechanical engineering from Kansas State University and has a master's degree in civil engineering from the University of Missouri-Rolla.