

IMPLEMENTATION OF ASME SECTION XI

CLASSROOM INSTRUCTORS

Mr. Scott Kulat, PE

- Member of the Board of Nuclear Codes and Standards
- Co-Vice Chair of ASME Section XI
- Chair of the ASME Section XI Executive Committee
- Member and former Chair of ASME Section XI Subgroup Water Cooled Systems
- Member and former Secretary of ASME Section XI Working Group on Inspection of Systems and Components
- Member and former Chair of ASME Section XI Working Group on Risk-Informed Activities

Mr. Ben Montgomery

- Member of ASME Section XI Working Group on Pressure Testing
- Secretary of ASME Section XI Task Group High Strength Nickel Alloy Issues
- Member of ASME Section III/XI Task Group on Spent Fuel Storage and Transportation Canisters

CONTACT INFORMATION

For information on the ASME Section XI training provided by Inservice Engineering, please contact

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INTENDED AUDIENCE

In-service Inspection (ISI) Engineers, ISI Coordinators, Repair/Replacement Engineers, Pressure Testing Coordinators, Quality Control Inspectors, Procurement personnel, Management personnel who have oversight of ISI activities, and other employees who have a need to understand how the requirements of ASME Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components", impact plant activities.



TYPE

1. Classroom, either as provided by Inservice Engineering or as conducted on-site
2. Training materials provided by Inservice Engineering



DURATION

1 day

ABSTRACT

This training is intended for all level of personnel in their respective disciplines. Training is tailored to the experience level of the participants.

TERMINAL LEARNING OBJECTIVES

For over 18 years, Inservice Engineering (IE) has been providing a 3-day training course which prepares the student to understand and implement the requirements of ASME Section XI.

The training is customized to the requirements of the client. For example, IE will customize the training to the Edition and Addenda of ASME Section XI that is of greatest interest to the particular utility. Additionally, IE will focus on issues that are important to the participants. For example, if many of the trainees are from the site procurement group, extra time will be devoted to the reconciliation rules of IWA-4000. Conversely, if the participants are primarily ISI Coordinators, we will spend more time on examination and risk-informed inservice inspection topics.

During the 3-day training session, trainees will learn about a wide spectrum of topics related to ASME Section XI and ISI from Inservice Engineering instructors who have been in the industry for over 35 years each. Their professional experiences are drawn on to enhance the material and as many “real world” experiences as possible are included to make the presentation engaging, memorable, and useful. Common error traps and misunderstandings about the meaning and use of Section XI are discussed, thereby ensuring that the student leaves the class with the ability to avoid these problems.

IE strives to engage the students, asking them to bring out and share their own relevant experiences. We have found that a classroom that is engaged is more memorable and learning is enhanced. Not only that, but other students benefit from hearing of the issues that their fellow students faced and solved. It is common for current issues at the attendees’ stations to be discussed.

The following is a listing of the topics addressed during the training. For a more detailed listing of specific objectives that are covered, please go to the following:

<http://www.inserviceengineering.com/isi-training-classes.html>

- SESSION I: INTRODUCTION TO INSERVICE INSPECTION
- SESSION II: ASME SECTION XI
- SESSION III: EXAMINATIONS AND INSPECTIONS
- SESSION IV: RISK-INFORMED INSERVICE INSPECTION
- SESSION V: EXAMINATION EVALUATIONS
- SESSION VI: REPAIRS AND REPLACEMENTS

- SESSION VII: PRESSURE TESTING
- SESSION VIII: DOCUMENTATION REQUIREMENTS AND DATA MANAGEMENT
- SESSION IX: ISI PROGRAM DEVELOPMENT AND UPDATE

STUDENT FEEDBACK

Throughout the course, we ask the participants if the material and training is meeting their needs. This allows us to enhance the presentation and emphasize areas that might not otherwise be addressed to meet the particular and topical needs of the students. At the end of our training course, we ask participants to give feedback to allow us to assess where we can improve our material and presentation. The following is some real feedback that IE has recently received:

"Excellent lesson plan, presentation, and class participation. Instructors very knowledgeable in ASME Code and Regulatory Requirements."

"Classroom instructors provided lots of relevant industry experience and insight that very much enhanced the presentation. Downloading the presentation and supporting material onto a memory stick was a great use when reviewing the material off-hours. I am new to the Program Engineering area and feel much better prepared for my new responsibilities."

"Great presentation with great support materials. Knowledge of instructors was top-notch."

"Presentation, materials, and instructors were excellent. There was a lot of material to get through and I will be keeping the information provided in class as a future reference."

"Great training - should be an introductory course for all Engineering personnel. Pace was great - not too slow or fast."

"Instructor knowledge was impressive. Great training and intro to ASME XI."

KEY INDUSTRY DOCUMENTS

Numerous documents are discussed during the training course, including (but not limited to) the following:

1. American Society of Mechanical Engineers (ASME) Section XI, Inservice Inspection of Nuclear Power Plant Components (Edition and Addenda to be determined by client needs)
2. ASME Code Cases Nuclear Components (as applicable to Edition and Addenda, above)
3. 10 CFR 50.55a "Code and Standards"
4. USNRC Regulatory Guide 1.147, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1," latest revision
5. USNRC Regulatory Guide 1.193, "ASME Code Cases Not Approved for Use," latest revision
6. Numerous Regulatory Documents including USNRC Generic Letters, NUREGs, Regulatory Guides, Bulletins and Information Notices