ASME Section III
Nuclear Certification Process

Course Description
This course is an overview of Section III, with an emphasis on Division 1, and is intended to assist technical organizations, utilities, equipment and material manufacturers in the understanding of the Nuclear Code. It is not intended to be in-depth course in nuclear design, fabrication, inspection, quality assurance or other technical requirements.

The attendee will gain an understanding of the history of the ASME Boiler and Pressure Vessel Code, its various Construction, Reference and Inspection Code Sections, how they are written, revised and maintained as well as the workings of the Committee System and basic policies of the Society.

The duties and responsibilities of the major parties concerned with Section III and its implementation such as Manufacturers, Owners (Utilities), Jurisdictions, Enforcement Authorities, the National Board of Boiler Pressure Vessel Inspectors and Authorized Inspection Agencies will be reviewed.

The course blends the technical and administrative requirements that form the basis for the Section III Quality Programs as detailed in ASME Section III, Div. 1, NCA-4134 and NQA-1. In addition, the process on how to obtain various ASME Nuclear Certificates of Authorization and Accreditation will be explained.

Topics Covered
ASME Nuclear Certification Process
  Types of Certificates
  QAI-1 - Qualifications and Duties of:
    Authorized Nuclear Inspection Agency
    Authorized Nuclear Inspection Supervisor
    Authorized Nuclear Inspector
  Organization and Use of Section III
  Quality Program Requirements
  Demonstration of Quality Program for ASME Survey
ASME System
  History
  Familiarization with the ASME and its Committee members:
    Jurisdiction
    Manufacturer
    Authorized Inspection Agency
    National Board
    Owner/User
    Voluntary person supported by their employer
    Delegate Program for persons outside USA and Canada
  Overview of ASME Codes, 1 through XI
  Introduction to Section III, Div. 1
  Overview of the Code, how Code revisions are issued, definition of
  Code Cases, Interpretations
  Organization and Use of Section III
    Divisions, Articles, Subarticles; Numbering System
  Terms and Definitions
  Key terms used in the Code are defined in this topic
  Classification of Components
  Control of Design Documents
    Design documents such as Owner’s Specifications, Design Reports
    and the Responsibility for control of such documents

Duties and Responsibilities
  Discuss the responsibility of the Owner, Manufacturer / Certificate
  Holder and the Authorized Inspection Agency
  Quality Assurance
    Triennial ASME Survey, NCA-4000 requirements and NQA-1
    requirements
  Procurement Control
    Procurement of items and services, qualification requirements of
    vendors and subcontractors
  Metallic Material Organization Quality Systems Program
    Material organization, quality assurance program requirements, and
    evaluation or qualification of material organization
  NX-2000 Material Requirements
    Permitted materials for pressure retaining parts, marking
    requirements, different material products, materials testing, heat
    treatment and storage and handling requirements
  Fabrication and Installation & Heat Treatment
    Forming and welding procedure qualification and performance
    qualification requirements, weld categories, travelers and checklist
    and rules governing making and repairing welds
  Examination Requirements
    NDE requirements for different Code classes in NB, NC, ND, etc.
  Testing Requirements
    Hydrotesting, pneumatic testing, gage requirements for testing the
    system, components and appurtenances, testing procedure and
    criteria
  Measuring and Test Equipment
    Selection, calibration control, handling, storage and record keeping
    requirements
  Certification and Application of ASME Mark with Designator

For More Information, contact:
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