

Instructor Profile

Dr. Dipak Chandiramani is a Doctorate (Ph.D) in Mechanical Engineering from IIT Kharagpur and a Chartered Engineer (India). He is working as a Principal Technical Specialist, in Lloyds Register Asia and carries a rich professional experience of 30 years in Welding, Design and Inspection.

He is involved in carrying out appraisal of pressure vessels to various national and international Codes including ASME Section I, IV, VIII Div. 1, VIII Div. 2, TEMA, AD-MERKBLATTER, PD5500, API, Australian Standards and IS. He also specializes in finite element analysis using ANSYS and pipe stress analysis. He is an Authorized Inspector of ASME Code Symbol stamped boilers and pressure vessels. He has as many as 12 international and national technical publications and presentations to his credit.

Dr. Chandiramani is an authorized ASME Instructor and an active member in the ASME BPV Section XII Committee (Technical Subgroup Design and Materials). He also is an active member of many Indian and International Technical societies such as IIW, ISNT, IEI, ASME, AWS, ASNT and ASM. He holds Professional qualification of ASNT Level III in PT, MT, RT and UT.



Introducing ASME India Online Courses in Boiler Pressure Vessels



Sessions Beginning in May 2010

Section VIII Division I Design and Fabrication Pressure Vessels Online Course Z1030IND & Section VIII Division II Alternative Rules Online Course Z1080IND

Highlights of the Courses:-



- > Convenient Six Week Career Oriented Online Courses
- > Networking with Peer Group across the country
- > Practical Skills that apply immediately to your job
- > ASME Certificate on successful completion of the programs
- > Led by ASME Instructors



For further details, contact:

Akash Mudgil, Global Information Systems Technology Pvt. Ltd.

Mobile: 9818885120, akash@gist.in

SECTION VIII, DIV 1 DESIGN & FAB PRESSURE VESSELS ONLINE COURSE

Based on the rules for pressure vessel design and construction, this is a comprehensive introduction to Code requirements.

Benefits

Improve your work skills at your own pace and convenience

Learn-by-doing enhance learning experience

Acquire practical tools that you can apply on the job

Network with others in your field

Earn 2.25 CEUs

Target Audience

Engineering and manufacturing organizations and users of pressure vessels; new employees and others needing initial or increased familiarity with ASME Code application to the design and construction of pressure vessels.

Special Feature

A copy of the code is required for this course. It is suggested that you use the latest Edition of the ASME Code Section VIII, Division 1, Pressure Vessels.

Course Highlights

Code rules, scope and jurisdiction

General requirements related to materials and testing

Material toughness and impact testing requirements

Joint categories and joint efficiencies

General requirements related to stamping, reports hydro tests and others

Welding requirements

Committees, operations and voting procedures

Editions, addenda and interpretations

Design requirements

Design criteria and strength theory for Division 1

Formulas for internal pressure and tensile loading

Procedures for external pressure (vacuum) and compressive loads

Openings and reinforcement

Hydrostatic and pneumatic testing

Background of the design rules

SECTION VIII, DIV II ALTERNATIVE RULES ONLINE COURSE

Attendees should have basic familiarity with Section VIII code.

What Will You Learn

Do you understand the rules of the ASME Section VIII, Division 2 and can you effectively apply them? Are you taking full advantage of the cost savings this Division offers? Do you know about the latest ASME Code Committee actions? Are you aware of major revisions being prepared for Division 2? If you answer “no” to these questions then you need to take this intensive seminar.

In today’s increasingly competitive environment, manufacturers and designers in India need to produce cost-effective, state-of-the-art pressure vessels. The lower design margins of the ASME Division 2 Code vs. Division 1 makes it more competitive with other international codes. Using case studies learn from an ASME expert on how to apply the design and analysis rules.

Upon completion of this course you will be able to:

Design a vessel to this Code

Perform various types of analyses and evaluate the analysis results

Have a complete understanding of the Division 2, including general requirements, materials, fabrication, NDE, PWHT, testing, documentation and stamping.

Who Should Attend

Pressure vessel designers, fabricators, and users. Individuals performing stress analysis of pressure equipment, wanting to familiarize themselves with the stress analysis and fatigue analysis methods of this Division.

Practical experience in structural design related to pressure equipment and familiarity with the ASME Code will be helpful, but are not required.

Course Highlights

Introduction to the ASME B&PV Code and history

Introduction to Section VIII, Div. 2 and general requirements

Introduction to fracture mechanics and thermal analysis

Material requirements and how to select materials

Fracture toughness rules

Fabrication requirements

NDE requirements

PWHT requirements

Tolerance requirements

Testing

Documentation and stamping

Design for internal pressure Design for external pressure