ASME BPVC: Section VIII, Division 2 – Construction of Pressure Vessels Course

This course covers the rules of ASME Code Section VIII Division 2 including background and organization.

Koulutustiedot

Introduction

This course covers the rules of ASME Code Section VIII Division 2 including background and organization. Apart from design aspects, the course also deals with the rules for materials, fabrication, inspection, testing and documentation. It covers the more commonly applied subsections and paragraphs and includes a practical discussion of individual problems and situations. In addition, a real life example will demonstrate the application of the paragraphs tackled during the course.

Goal

Upon completion, the participants will be able to interpret the basic ASME Code Section VIII, Division 2, and use it effectively.

What will you learn in this course?

- An understanding of the background of the code and the ASME system.
- How to apply code rules to common design,fabrication, and testing situations.
- How to perform calculations for common design tasks and also situations not addressed by the code.
- Basic insight to Design by Analysis (DBA) rules and procedures.

What is required

Kiwa Inspecta Academy
fi.training@kiwa.com
010 521 600

- A calculator
- Latest edition of the code book (VIII Div. 2) is suggested (not required)

Course language

English

Target group

This training will benefit anyone involved in purchasing, design, fabrication or inspection and testing of pressure vessels:

- Managers, mechanical engineers and operators
- Design engineers, inspection engineers
- Quality assurance/control engineers
- Inspectors and inspection coordinators
- ASME certificate holders and other pressure vessel manufacturers

Designed primarily for beginners. Experienced vessel designers, who would like to update their knowledge of the Code, will also benefit from attending. Some background on ASME Sect. VIII, Div.1 will be helpful but is not required.

Trainer

Robert Kauer, Projects Process Industry, TÜV SÜD Industry Service
Robert Kauer (Dipl.-Ing., Dr.-Ing.) received his engineering degree at the Technical University of München in 1991. Since this time he has been working in the field of pressure vessel and piping technology, starting as an R&D engineer at the Institute of PVP Design, Experimental Stress Analysis and Plant Engineering in Munich. Since joining TÜV SÜD, he handled various national and international projects related to design, structural reliability, Fitness for Service, and inspection programme development for nuclear and non-nuclear applications in pressure vessel and piping technology. He is ASME Authorized Inspector Supervisor and is member of various national and European committees including ASME International Working Group Germany. Currently he is responsible for Consulting Projects related to Fitness for Service, Asset Integrity and Process Safety Excellence at TÜV SÜD Industry Service, Munich.

Kiwa Inspecta Academy
fi.training@kiwa.com
010 521 600

Ohjelma

DAY ONE: 10.9.2019

9.00 Registration and coffee

9.30 – 12.30

- Introduction to ASME and Sect. VIII
- General requirements, UDS and MDR
- Material requirements

12.30 Lunch

13.30 – 17.00

- Material toughness requirements
- Design by Rules: General Design Requirements and design of welded joints
- Design by Rules: Design for Internal and External Pressure

DAY TWO: 11.9.2019

9.00 – 12.30

- Design by Rules: Openings
- Design by Analysis: General requirements
- Design by Analysis: Elastic Analysis, Limit Load Analysis, Buckling, Fatigue

12.30 Lunch

13.30 – 17.00

- Design by Analysis: Elastic Analysis, Limit Load Analysis, Buckling, Fatigue
- Fabrication requirements

DAY THREE: 12.9.2019

9.00 – 12.00

- Examination and inspection requirements
- Pressure testing requirements

12.00 Lunch

13.00 – 15.00

- Completion of open points
- Course summary and questions

There will be examples throughout the course to demonstrate how to apply the code rules.

Kiwa Inspecta Academy
fi.training@kiwa.com
010 521 600

Kiwa Inspecta Academy
fi.training@kiwa.com
010 521 600