







# Designing according the EN13480 code

## Online Course



-  Self-paced
-  6 modules
-  4 hours
-  English
-  1-yr access
-  SPC008



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100% online training



**Video Lectures**  
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**Personal Certificate**  
to prove your knowledge

### Course Objective

***"To explain the **fundamental equations and principles**, thereby creating a **solid understanding** of the EN13480 design code."***

### Program

<b>Module 1</b>	EN13480 Introduction	<b>49min</b>
<b>Module 2</b>	Design of Components for Internal Pressure	<b>50min</b>
<b>Module 3</b>	Flanges	<b>28min</b>
<b>Module 4</b>	Openings and Nozzles	<b>28min</b>
<b>Module 5</b>	External Pressure	<b>49min</b>
<b>Module 6</b>	Fatigue	<b>22min</b>

### Results

- ✓ Understand the structure and applicability of the EN13480 code
- ✓ Know the design rules for most standard components, their backgrounds and have performed tutorials on how to apply them
- ✓ Are able to identify the limits of these rules
- ✓ Understand the safety factors used in the code and the differences with other codes
- ✓ Know how the relevant failure mechanisms are covered in the code.

# Designing according the EN13480 code

## Online Course

### Provided by



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Project Engineer, Dynaflow Research group

Mechanical, Piping, Pulsations

DYNAFLOW  
RESEARCH  
GROUP.

Dynaflow Research Group specializes in the advanced end of the engineering spectrum. Their work often requires a multi-disciplinary approach: encompassing the static and dynamic analysis of both fluids and gases, and mechanical components.

They are at their best when creative thinking and a practical approach are required to tackle a problem.

### Course Summary

The EN13480 design code is frequently used for piping system design for systems in Europe. Often the rules are applied using automated pipe flexibility software packages such as CAESARII and the engineer can lose the overview of the calculation being performed. This course aims to explain the fundamental equations and principles in these design rules. For example: How is the allowable design stress calculated? Why should certain load cases be analyzed? What inter-stiffener distance is required to prevent collapse under vacuum? How many cycles are permitted for cyclic loads to avoid fatigue failure? This course covers the design rules of the EN13480 code and the similarities and differences compared to the American ASME B31.3 code are discussed throughout.

The course consists of 6 online modules based on video content. You receive 1-year unlimited access to the course and the discussions forum. This allows you to perform modules again when you need to refresh knowledge for your work projects.

### Who should attend this course

- Pipe Design Engineers and Pipe Stress Engineers designing piping systems as per the EN13480 code
- Engineers that need to have a solid understanding of the design approaches used in the EN13480 code,
- Those involved in pipe system design projects for systems installed within Europe and designed as per the EN13480

### Prerequisites

- Technical background
- Basic understanding of piping systems is beneficial

**Level** I - Intermediate