







Introduction to Pipe Stress

Bundle



-  Bundle
-  12 Modules
-  15 hours
-  English
-  1-yr access
-  BUN503



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Personal Certificate
to prove your knowledge

Course Objective

"Ideal for **Lead Piping Engineers** and **Junior Pipe Stress Engineers** that want to make the right decisions."

Course Overview

This course by Stressman Engineering gives you a strong base and understanding of Pipe Stress Engineering. It will enhance your discussions with colleagues, vendors and clients and refuels you with inspiration and knowledge. In a set of online modules, you learn to understand the design philosophy of pipe stress. With practical examples, the instructors will provide you with a prominent course and give you a complete overview.

The course provides a broad context of the concepts, insights into possibilities for optimization and cost reduction, and a strong base for deeper discussions with colleagues, vendors and clients.

This Fundamentals course contains 7 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 your knowledge for your work projects.

Self-paced OR e-Hybrid

Available in self-paced format, optimum for individual learning, and available eHybrid format that combines self-paced modules with 4 instructor-led live sessions (4.5 hours), optimum for teams.

Fundamentals 1

Program

Module 1	Why do a Pipe Stress Analysis? (Free Course Preview)	11 min
Module 2	Back to Basics	1 hr 7 min
Module 3	Stress analysis on various systems	55 min
Module 4A	Piping Codes & Standards	50 min
Module 4B	Equipment Codes & Standards	2 hr 13 min
Module 5	Types of stress analysis	57 min
Module 6	Wall thickness calculation	53 min

Results

After this course you...

- ✓ Understand the different loads relevant for pipe stress and their combinations
- ✓ Know the different codes & standards related to pipes and connected equipments, and their context
- ✓ Understand the differences for pipe stress analyses of different types of systems
- ✓ Know how to perform a Piping Stress Criticality Selection and perform pipe wall thickness calculations

Fundamentals 2

Program

Module 7	Flexibility Calculation as per B31.3 (Free Course Preview)	1 hr 54 min
Module 8	Load Combination Cases for Pipe Stress Analysis	1 hr 30 min
Module 9	Piping Component and Support	41 min
Module 10	Flange Leakage Calculations	50 min
Module 11	Piping Stress Special Cases	1 hr 10 min
Module 12	Reporting a Pipe Stress Analysis	1 hr 16 min

Results

After this course you...

- ✓ Know all concepts involved in a pipe stress flexibility analysis
- ✓ Better understand code related load combinations
- ✓ Have a good overview of all types of piping components and support types
- ✓ Know about different flange types and calculations
- ✓ Understand special load cases for piping systems
- ✓ Have a detailed understanding of the documentation aspects involved with pipe stress and interfaces with other disciplines

Who should attend this course

- Piping Design Engineers & Piping Design Leads which are required to understand the basics of pipe stress engineering to make the right decisions
- Junior Pipe Stress Engineers with 0-3yr experience
- Mechanical, Process and Structural engineers that require a broad perspective on piping system design

Prerequisites

- Technical background

Level Fundamentals

Provided by



Stressman Engineering is all about stress and the laws of physics. Ranging from simple hand calculations to advanced dynamic 3D finite element analyses, they get the job done efficiently and smoothly.

Stressman Engineering's mission is to be your preferred supplier of numerical analyses. They are a one-stop-shop that can supply everything from simple hand calculations to complex fluid-structure analyses. A high level of knowledge combined with a passion for science makes them a powerful team.

Instructors



Sondre Luca Helgesen

CEO, owner and Senior Analyst at Stressman Engineering

Pipe Stress, Piping Design, FEA, Ansys



Juan Manuel Mendez Franco

COO at Stressman Engineering
President of The PSI Association

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Jonathan Arana Garcia

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