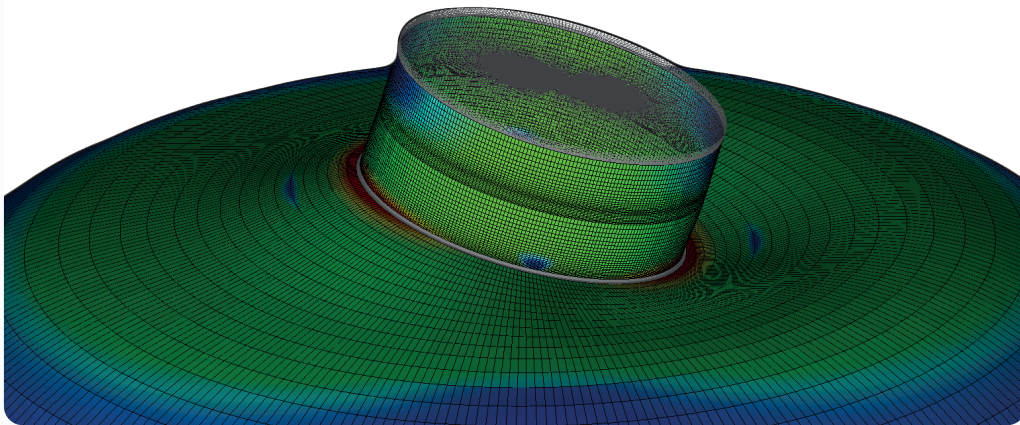


FEPipe Essentials

Online Course



- Self-paced
- 7 modules
- 11 hrs of videos
- English
- 1-yr access
- SPC126



Learn from home
100% online training



Video Lectures
watch multiple times



Available 24/7
1-year unlimited access



Receive Personal Certificate
to prove your knowledge

Course Objective

*"To enable BOSfluids users to be **highly effective users** and perform water hammer **analysis independently**."*

Program

Module 1	Introduction & Stress Categorization	2 hr 16 min
Module 2	the NozzleShell Template	1 hr 37 min
Module 3	Piping in FEPipe	1 hr 21 min
Module 4	FEPipe Features	1 hr 17 min
Module 5	Axisymmetric models, Fatigue & Linearization	2 hr 55 min
Module 6	Dynamic Assessment	1 hr
Module 7	Miscellaneous Topics	21 min

Results

After this course, you...

- ✓ have a basic understanding of Stress Categorization as per ASME BPVC VIII-2,
- ✓ can build custom structures in FEPipe using plates,
- ✓ know how to model piping actions and calculate SIFs,
- ✓ can perform fatigue analysis using linearization in FEPipe,
- ✓ are able to calculate eigenmodes and buckling modes using dynamic assessments,
- ✓ understand how to perform thermal transient calculations in FEPipe.

FEPipe Essentials

Online Course

Provided by



Frank Bos, PhD

Project Engineer, Dynaflow Research Group

Mechanical, Piping, FEA, CFD

DYNFLOW
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

This course teaches you all the fundamentals of working with FEPipe and is beneficial for both new and existing users.

Many different aspects of FEPipe are covered, including the analysis of typical geometries such as heads and nozzles, but also custom attachments, build using plates, and assemblies of multiple models are discussed. The entire workflow is covered in detail including visual model verification, boundary conditions and result viewing options. Also advanced modelling features in FEPipe, flange analysis, thermal transient analysis, calculating mechanical eigenmodes and much more. Also, software modules like AxiPRO and Stressplot, which are part of the PRG Suite and relate to the use of FEPipe, are discussed.

There will also be extensive seminars on Part 5 of the ASME BPVC VIII-2 so that participants become proficient in conducting a "Design by Analysis" assessment.

The course consists of 7 online modules based on video lectures, software tutorials and exercises. 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

- Both new and existing users of FEPipe.
- Those that want to understand more about the capabilities of FEPipe.
- Those conducting ASME VIII-2 assessments.

Prerequisites

No prior knowledge of FEPipe is required.

Level Foundations