ENGINEERING TRAINER

DYNAFLOW RESEARCH GROUP.

Water Hammer Analysis using BOSfluids

Online Course

BOSfluids



- Self-paced
- 7 modules
- 7.5 hours
- ♀ English
- C 1-yr access
 - SPC119





Available 24/7 1-year unlimited access



Course Objective

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

Program

in

Module 1	Water Hammer Analysis and Mitiga- tion	53 min
Module 2	BOSfluids Fundamentals	59 min
Module 3	An overview of BOSfluids	1 hr 07 min
Module 4	Steady State analysis in BOSfluids	1 hr 25 min
Module 5	Analysis of Pressure transients	55 min
Module 6	Pressure Transients due to Flow Devices	1 hr 01 min
Module 7	Cavitation and Pressure Transients	1 hr 03 min

Results

<	Have a solid understanding of water hamme phenomena
\checkmark	Can perform water hammer analysis of basic scenarios in BOSfluids
\checkmark	Know how to interpret pressure surge results
<	Understand the influence of cavitation in piping systems
\checkmark	Are familiar with the BOSfluids solvers
<	Know how to link your results to pipe stress analysis software
\checkmark	Have seen numerous real-life cases of water hammer phenomena in industrial piping
\checkmark	Know different mitigation measures and the applicability

Are capable of assessing pressure surge reports to take actions for mitigation of their system at hand

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Provided by



Frank Bos, PhD Project Engineer, Dynaflow Research group

Mechanical, Piping, FEA, CFD

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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 performing water hammer analysis using BOSfluids.

Background knowledge about water hammer phenomena and analyses methods are provided as well as tutorials in performing such analyses in the BOSfluids software. Results are discussed in detail to provide a solid understanding of their interpretation. Next to different water hammer scenarios and their analysis also many real-life cases are provided and associated mitigation measures are discussed.

After this course you are a confident user of BOSfluids that understands good design practices and analysis methods for water hammer phenomena in piping systems.

The course allows you to learn at your own pace and is fully provided online. You receive 1-year unlimited access to all modules, which allows you to perform them over again when you need to refresh knowledge for your work projects.

Who should attend this course

- Users of BOSfluids that want a solid understanding of the software, analysis techniques and backgrounds
- Those involved with performing pressure surge analysis
- Engineers that need to be able to understand reporting of pressure surge analysis for their system at hand

Prerequisities

- No prior knowledge of BOSfluids is required
- A basic understanding of piping systems is beneficial

Level Intermediate

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