ENGINEERING TRAINER

DYNAFLOW RESEARCH GROUP.

BOSpulse Foundations: Pulsation Analysis

Online Course



- Self-paced
- 9 modules
- 5 hours
- ♀ English
- C 1-yr access
- SPC129









Course Objective

"To enable BOSpulse users to have a good understanding of the software and the backgrounds associated with API 618 & API 674 pulsation analysis."

Program

Fundamentals of Acoustics and Pulsations Module 1 45 min Module 2 Working with BOSpulse **58 min** Module 3 Pulsation Analysis of a Compressor 17 min Module 4 **BOSpulse Solver** 47 min Module 5 Codes and Guidelines 37 min Module 6 23 min Reducing Pulsations Module 7 **Pipe Stress Interaction** 14 min Structural Analysis Module 8 9 min **Further Discussions** Module 9 32 min

Results Have a solid understanding of pressure pulsation phenomena



Can perform pulsation analysis as per API 618 and API 674



Know how to use the BOSpulse software and interpret the results

Have seen numerous real-life cases of pulsation analysis in industrial piping

Know different mitigation measures and their applicability

in 🕈 🗹

Click here to visit EngineeringTrainer.com

ENGINEERING TRAINER

BOSpulse Foundations: Pulsation Analysis

Online Course

Provided by



Wijnand Schoemakers, MSc Project Engineer, Dynaflow Research group

Mechanical, Piping, FEA, Flow

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

This course teaches you the fundamentals of pulsations in piping systems and a how to assess these pulsations based on the API 618 and API 674 codes.

The course is intended for engineers involved in the acoustic and/or mechanical design of the piping upstream or downstream of a reciprocating equipment. You will be introduced to the theoretical background of pulsation analysis, and will become acquainted with conducting a code conformance analysis for reciprocating equipment using BOSpulse.

Effective mitigation methods are covered for excessive pressure pulsations and the analysis of these mitigative actions using BOSpulse. Detailed explanation of the effects of dampener configurations, bottles, and other pressure suppression methods are provided using BOSpulse.

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

Who should attend this course

- Users of the BOSpulse software
- Those interested in understanding the theoretical background of pulsation problems
- Engineers involved in API618 and API674 pulsation analyses

Prerequisities

- No prior knowledge of BOSpulse is required
- A basic understanding of flow analysis is beneficial
- Level Intermediate

Click here to visit EngineeringTrainer.com