ENGINEERING TRAINER

DYNAFLOW RESEARCH GROUP.

# Buried Piping Engineering using CaesarII

## Online Course

- Self-paced
- 7 modules
- 6.50+ hours
- English
- 1-yr access
- SPC013

**Learn from home**
100% online training

**Video Lectures**
watch multiple times

**Available 24/7**
1-year unlimited access

**Personal Certificate**
to prove your knowledge

### Course Objective

***"To provide you with a solid understanding of the different technical and design aspects involved with buried piping and the ability to analyze them."***

### Program

| | | |
|---|---|---|
| *Module 1* | Introduction & Overview of the Course | 1hr 2min |
| *Module 2* | Soil Pipe Interaction - Part 1 | 1hr 8min |
| *Module 3* | Buried Pipe Modeling in CAESAR II | 1hr 8min |
| *Module 4* | Soil Pipe Interaction - Part 2 | 1hr |
| *Module 5* | 5 Introduction to NEN3650 | 45min |
| *Module 6* | Underground Supporting & Structures | 30min |
| *Module 7* | Buried Piping in CAESAR II | 1hr |

### Results

- Have a good understanding of theoretical and practical aspects involved with realizing buried industrial piping systems
- Know how to apply ground entries, underground supporting, thrust blocks and road crossings
- Are able to perform pipe stress analysis in CaesarII,
- Know potential critical issues and related failure mechanisms
- Understand the difference between steel and non-steel for buried piping

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## Online Course

### Provided by

**Mick Bouman, 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

Are you actively involved with technical issues involving buried industrial piping? This course teaches you the basic technical knowledge of soil mechanics and its influence on underground piping. After the course you will have a solid understanding of the different technical aspects involved in buried piping. This makes the training course especially valuable for piping engineers, but also provides valuable information for operators, supervisors, technicians, and plant managers.

Topics include relevant design codes (e.g. NEN 3650, ATV, AWWA), Solutions to typical stress problems, underground pipe supporting and thrust blocks, awareness of the critical aspects, potential failure mechanisms, identify potential field and design issues and the differences between buried steel and non-steel piping.

The course consists of 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 knowledge for your work projects.

An active CaesarII license is required for this course. Note that a license is not provided as part of the course. Please contact us for questions on this matter.

### Who should attend this course

- Pipe stress engineers involved with buried piping systems in industrial environments
- Those involved in design, installation or maintenance of buried piping systems

### Prerequisites

- Basic understanding piping systems
- Basic user knowledge of the CaesarII software

**Level** Intermediate