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Pipeline Installation

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GUIDED ONLINE COURSES

October 25, 2021 - December 03, 2021

Enroll

Overview

Course outline

Credits

1.0 CEU / 10 PDHs

Pricing

Member \$645 | Non-member \$795

Instructor

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Purpose & background

The course will cover the proper procedures for construction of a buried pipeline. There will be many case histories of pipeline failures used to illustrate the importance of correct installation. Terminology, types of pipe, and installation theory will be covered. The types of soils, classifications, laboratory, and field testing will be discussed. The excavation of trenches, foundation treatments, evaluating trench walls, and performing inspections will also be explained. The course will not cover petroleum products pipelines.

Pipeline Installation 2.0 is a textbook encouraged for use as a supplement to this course. Available for purchase on Amazon or Amsterhoward.com.

Learning outcomes

Upon completion of this course, you will be able to:

- Explain why rigid pipe and flexible pipe are installed differently.
- Identify the proper soils for use in bedding, embedment, and backfill.
- Apply the correct way of compacting various soil types.
- Be able to select the appropriate laboratory test for the soils used.
- Design soil support systems for poor soil conditions.
- Develop mix designs for flowable fill.

Who should attend?

- City/county planners
- City/county engineers
- Consulting firms
- Pipeline design engineers
- Specification writers
- Project managers inspectors

Civil engineering

salaries remain consistent amid year of inconsistency



Twists and turns



- [Construction engineers](#)
- [Contractors](#)
- [Construction foremen](#)
- [Pipeline manufacturing personnel](#)
- [Pipe salesmen](#)

Policies & system requirements

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[CONSTRUCTION ENGINEERING & MANAGEMENT](#) [CONSTRUCTION METHODS](#)

[CONSTRUCTION SITE MANAGEMENT](#) [INSPECTION](#) [GEOTECHNICAL ENGINEERING](#)

[SLOPES](#) [SOIL MECHANICS](#) [STRUCTURAL ENGINEERING](#)

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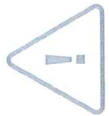
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Schedule

Week 1

- Trench cross section
- Types of pipe
- Rigid versus flexible pipe theory

Related items

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Week 2

- Soil classification
- Soil density, percent compaction
- Laboratory tests
- Field tests
- Compaction methods

Week 3

- Transportation
- Handling storage
- Initial inspection
- Stringing
- Trench excavation
- Crossing pipelines/cables

Week 4

- Foundations
- Trench walls
- Bedding
- Laying

Week 5

- Embedment backfill
- Backfilling crossing
- Pipelines/cables

New UESI President Elect and
Board Governors 2021

Interdisciplinary
course helps
empower the local
community



Week 6

- Flowable fill
- Pipe structure connections
- Acceptance inspection
- Leak testing

This course outline is subject to change.

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