



# Trench Drain Systems: Fundamentals, Aesthetics, and Sustainability

**Program #:** ZURN05

**Credits:** AIA 1.0 LU/HSW, ASPE 1.0 CEU/PDH\*

## Learning Objectives:

1. Define sustainable urban drainage systems and list their benefits and impacts on the natural water cycle.
2. Illustrate the importance of incorporating trench drains into drainage systems to improve sustainability.
3. Compare drain channel materials, grates, and outlets and their impact on the natural environment.
4. Discuss trench drain design considerations and criteria and their role in compliance with codes and standards to ensure user safety and wellness.
5. Describe the function and components of a trench drain and the appropriate functional trench drain that meets the needs of a specific application while maintaining sustainability objectives.

**HSW:** Yes **PDH:** Yes\*

## Description:

Buildings, roads, and man-made landscapes can harm the natural environment with their effect on the natural water cycle. Architects and designers need to be aware of the best practices and experts' recommendations to specify the correct type of drainage system that serves users and protects the environment. This course discusses the positive contributions of modern drainage systems to the built environment and their role in improving sustainability. The technical and aesthetic aspects of trench drain design are also covered.

\* This course is approved for PDH credit but is subject to compliance with each states rules and guidelines.

**AIA**  
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Education  
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