

SAMPLE COURSE OUTLINE

Groundwater Hydrology

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Course Highlights

This manual initially presents an overview of the occurrence and movement of groundwater. Procedures for planning and managing a site characterization and modeling study are then presented. This is followed by chapters addressing the technical aspects of field investigative methods and computer modeling. A final chapter discussing the interaction of groundwater and surface water is then presented.

Since it is not possible to provide specific instructions and/or specific procedures that are universally applicable to every situation that may be encountered, this course emphasizes the use of sound judgment and the development of a good understanding of basic groundwater concepts rather than providing specific guidelines.

This course is applicable to civil and environmental engineers, as well as design and construction personnel involved with the study and analysis of groundwater flow.

In this course, you need to review the US Corps of Engineers Publication EM 1110-2-1421, "Groundwater Hydrology".

Once you complete your course review, you need to take a multiple-choice quiz consisting of forty-five (45) questions to earn PDH credits. The quiz will be based on Chapters 1 through 6 of Publication EM 1110-2-1421, "Groundwater Hydrology". The appendices are provided for reference only.

Learning Objectives

This course is intended to provide you with the following specific knowledge and skills:

- Occurrence and Movement of Groundwater
- Planning a Groundwater Investigation and Modeling Study
- Field Investigative Methods
- Computer Modeling of Groundwater Flow
- Interaction Between Surface Water and Groundwater