

PE Exam Review
***A Short Course presented by the Transportation Learning
Network***
Via Web Conference

9:00AM to 4:00PM (CST)
August 19,20,21, 2008

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Description

This course is designed to prepare you for the PE exam, specializing in Transportation. The course provides study material and practice exams for both morning and afternoon sessions. The AM exam requires candidates to answer 40 questions in all five disciplines (Construction, Structural, Transportation, Geotechnics, and Water & Environmental Engineering). The PM exam is focused on the Transportation.

Who should attend?

Anyone who has to take the PE Exam, for Civil Engineers.

Course Objectives

Upon completion of the course, participants will be able to tackle the PE Exam confidently, with a review of the morning (general) exam and another review of the material covered in the afternoon (depth) exam emphasizing transportation.

Instruction Method

Web conference through the TLN videoconference network

Eligibility

The course is open to all DOT engineers from TLN member states.

How to register

1. On or before August 4th, 2008, please e-mail peter@trafficlab.utah.edu with the words "Register PE Course" in the title of your message.
2. On August 11th, you'll get an e-mail with the course materials supplied as PDF files. Most of the materials are demonstration problems with partial 'work-along' solutions. You'll need them in front of you when you watch the web conferences.
3. Print and bind them all.
4. You will be sent a web page address to site for the opening session, at 9:00 AM (MST) on Tuesday August 19th, 2008.

Note: you need to send your registration e-mail (#1 above) by the deadline, but **be warned** – the class is limited to 50 and will be closed once it is full.

Any questions

You can e-mail your instructor, Dr. Peter Martin, at peter@trafficlab.utah.edu

Course Content

Module Topic Description

- 1 Construction (A) Earthwork Construction & Layout
- 2 Construction (B) Estimating, Scheduling & Economics
- 3 Construction (C) Material Quality Control & Temporary Structures
- 4 Geotechnics (A) Sampling, Classification, & Soil Phase Relationships
- 5 Geotechnics (B) Permeability & Pavements
- 6 Geotechnics (C) Compaction & Consolidation
- 7 Geotechnics (D) Shear Strength & Effective Stress
- 8 Geotechnics (E) Earth Retaining Structures
- 9 Structures (A) Loadings
- 10 Structures (B) Analysis
- 11 Structures (C) Mechanics of Materials
- 12 Water Resources & Environmental (A) Wastewater Treatment
- 13 Water Resources & Environmental (B) Water Treatment
- 14 Water Resources & Environmental (C) Energy dissipation, Sub/Super Critical Flow
- 15 Water Resources & Environmental (D) Hydraulics & Open Channel Flow
- 16 Water Resources & Environmental (E) Hydrology
- 17 Transportation (A) Traffic Analysis, Speed & Flow
- 18 Transportation (B) Traffic Analysis - Intersections & Signals
- 19 Transportation (C) Geometric & Alignment Design
- 20 Transportation (D) Geometric & Roadway Design
- 21 Transportation (E) Transportation Planning & Capacity
- 22 Transportation (F) Traffic Safety

Schedule

Day 1: Modules 1-7: (Includes the new Construction Engineering Requirement)

9:00 AM to 4:00 PM (MST) Tuesday, August 19, 2008

Day 2: Modules 8-15:

9:00 AM to 4:00 PM (MST) Wednesday, August 20, 2008

Day 2: Modules 16-22:

9:00 AM to 4:00 PM (MST) Thursday, August 21, 2008

Note: this class will be offered again January 5, 7, and 9 in preparation for the April 2009 exam.