POST-TENSIONED CONCRETE SLABS-ON-GROUND - DESIGN FUNDAMENTALS

SEMINAR - PART 1 OF 2

HALF DAY, 4 HOURS (4 PDHs / 0.4 CEUs)

Who should attend: Engineers and contractors new to post-tensioned slab-on-ground (SOG) design or anyone interested in post-tensioned slab-on-ground design fundamentals.

Program Content:

INTRODUCTION
- History and development of PT SOG
- Advantages of PT SOG
- Applications

GEOTECHNICAL INVESTIGATION
- Field investigation
- Laboratory testing
- Soil-structure interaction
- Movement modes
- Geotechnical report

STRUCTURAL DESIGN
- Design process overview
- Design parameters
- Design procedures

STRUCTURAL DESIGN EXAMPLES
- PTI-1 Lightly reinforced slabs on stable soils
- PTI-2 Ribbed SOG for expansive sites
- PTI-3 Uniformed thickness SOG
- Special design issues

CERTIFICATION AND PTI RESOURCES
- Certification levels and workshops
- PTI resources

OPEN Q&A

Learning Objectives:

- Identify geotechnical considerations.
- Understand soil support parameters and soil-structure interaction assumptions.
- Understand minimum requirements for design of shallow post-tensioned slab-on-ground foundations.
- Discuss design examples for post-tensioned slab-on-ground foundations for different soil support conditions.
- Recognize applicable code sections and design resources.

Instructors:

PTI engineers and industry experts

Related Documents:

To expand attendees' knowledge, copies of related documents may be purchased at the PTI Store with a one-time special discount of 25% off the regular price. Contact pti.bookstore@post-tensioning.org for more details.

- Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive and Stable Soils (DC10.5-24)
- Design of Post-Tensioned Slabs-on-Ground (DC10.1-08)
- Construction and Maintenance Manual for Post-Tensioned Slab-on-Ground Foundations (DC10.2-17)