Design of Concrete Slabs-On-Ground

In-House Seminar
ONE DAY, 7.5 HOURS (7.5 PDHs/0.75 CEUs)
Learn from the experts about slab design

Who should attend: Engineers and designers will gain practical tools and information that can be used right away for slab design.

Program Content:
Theoretical background for current analytical procedures and design aids
• Geotechnical considerations for supporting base and subgrade

General discussion
• Thickness design
• Slab reinforcing and detailing

Design examples
• Nonreinforced slabs, reinforced and structurally reinforced slabs
• Post-tensioned slabs and slabs using shrinkage-compensating cement
• Conventional and fiber reinforcing
• Assessing performance expectations, risks and relative costs

Specific detailing and specification sections required for complete contract documents
• Prescriptive versus performance specification approaches
• Concrete mixture design and analysis
• Tolerances, surface treatments, curing and protection
• Jointing and load transfer at joints

Contract administration
• Prebid and preconstruction meetings
• Substitutions and submittals
• Field observations
• Reconciliation of the design with actual construction

Learning Objectives:
• Identify geotechnical considerations for supporting base and subgrade.
• Recognize specific detailing and specification sections require for complete contract documents.
• Understand the theoretical background for current analytical procedures and design aids.
• Discuss design examples for nonreinforced slabs, post-tensioned slabs, and use of conventional and fiber reinforcement.

Instructors:
Two industry experts will present this seminar.

Related Documents:
To expand attendees knowledge, ACI In-House Seminar customers may purchase multiple copies of related documents at 50% off the regular price.
• ACI 360
• Articles on slab design
• Course Notes authored by the instructors

Up to 40 copies of the presentation slides included. Additional copies can be purchased.

ACI is an approved education provider for AIA and ICC.