

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 required 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.



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