



CONSTRUCTION OBSERVATIONS (2026 UPDATE)

A MODULE IN THE UPDATED RGE EXAM STUDY SERIES

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ABOUT THE UPDATED RGE EXAM STUDY SERIES

CalGeo released its 10-module “Geotechnical Engineer License Review Course” in the late 1980s and early 1990s. Since 2023, CalGeo has been releasing an update to this much used course through live webinars. This module is the 2026 update.

ABOUT THE CONSTRUCTION OBSERVATIONS MODULE

Section 1: Introduction

Section 2: Documentation of construction activities, compaction, soil additives, density testing, shallow and deep foundation construction observation, soil and rock anchor testing

Section 3: Monitoring during and post-construction settlement, heave, or expansion and fill placement; documenting site conditions

Section 4: Examples/Case histories

Section 5: Practice problems

ABOUT THE PRESENTER

Nathaniel Wagner is a geotechnical engineer with experience performing geotechnical and earthquake studies throughout California and internationally, including for subsurface utilities, power plants, earth and concrete dams, hospitals, building foundations, and forensic geotechnical engineering, as well as peer review of geotechnical engineering and foundation design aspects of structures and non-linear dynamic analysis of embankment dams. His areas of expertise include analysis of shallow and deep foundation systems, analysis of earth retaining systems, assessment of seismic hazards due to liquefaction, slope stability and seismic deformation potential of embankment dams, site response analysis, and numerical modeling of geotechnical and soil/structure systems. He has also served as a lecturer in soil mechanics and foundation engineering for the California State University, Sacramento, and the University of California, Davis.

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