

DEPARTMENT: Inspection

COURSE: Inspec 010

TITLE: Fundamentals of Construction Inspection I (Soil)

WORKSHEET

Course Objectives (not part of SLO-but derives SLO)	Outcome	Activity	Assessment
Unified Soils Classification System	Students will be able to define in situ soil as coarse-grained or fine grained elements under the Unified Soils Classification System.	Students will read California Building Code Standards Chapter 18 that categorizes soil as coarse grained or fine-grained based upon particle size and color.	Students will analysis particle size and color of given soil samples and categorize the samples as coarse grained or fine grained. soil types.
Expansive Soil	Students will be able to identify the presence of expansive soil at a given location.	Students will read a professional soil report to determine the presence of expansive soil at a given location.	Students will locate expansive soil test results in a professional soils report and classify the soil type as expansive or non expansive as required by CBC Standard Chapter 18.
Foundation Elements	Students will be able to identify critical foundation design reinforcement features mandated by the presence of expansive soil.	Students will read a foundation plan to determine compliance with code mandated expansive soil mitigation measures.	Students will determine minimum footing size, steel placement, and concrete type for expansive soil as required by a soils engineer in a professional soils report.

SLO #1

Students will be able to define soil as coarse or fine grained elements using the Unified Soils Classification System and the California Code Standards to evaluate color and size to set standards.

SLO #2

Students will be able to identify critical foundation design features mandated by the presence of expansive soil. By reading a foundation plan to determine soil mitigation measures required by a soils engineer in a professional soils report.