



Designation: D 3740 – 99c

Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction¹

This standard is issued under the fixed designation D 3740; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope *

1.1 This practice establishes minimum qualifications for agencies engaged in the testing and inspection of soil and rock. Minimum requirements for field and laboratory personnel are defined. The practice also covers the establishment and maintenance of a quality system.

1.2 Criteria are provided for evaluating the capability of an agency to properly perform designated tests on soil and rock, and for establishing essential characteristics pertaining to an agency's organization, personnel, facilities, and quality system. This practice may be supplemented by more specific criteria and requirements for particular projects.

1.3 This practice can be used as a basis to evaluate testing and inspection agencies, or both, and is intended for use for the qualifying or accrediting, or both, of testing or inspection agencies, public or private, engaged in the testing and inspection of soil and rock as used in engineering design and construction.

1.4 This practice is not intended to apply to agencies engaged in chemical testing of soil, rock, and contained fluid. The minimum requirement for those agencies can be found in Specification D 5522.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This practice offers a set of instructions for performing one or more specific operations. This document cannot replace education or experience and should be used in conjunction with professional judgment. Not all aspects of this practice may be applicable in all circumstances. This ASTM standard is not intended to represent or replace the standard of care by which the adequacy of a given professional service must be judged, nor should this document be applied without consideration of a project's many unique aspects. The word "Standard" in the title of this document means only that the document has been*

approved through the ASTM consensus process.

2. Referenced Documents

2.1 ASTM Standards:

- D 422 Test Method for Particle-Size Analysis of Soils²
- D 558 Test Methods for Moisture-Density Relations of Soil-Cement Mixtures²
- D 559 Test Methods for Wetting and Drying Compacted Soil-Cement Mixtures²
- D 560 Test Methods for Freezing and Thawing Compacted Soil-Cement Mixtures²
- D 653 Terminology Relating to Soil, Rock and Contained Fluids²
- D 698 Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))²
- D 854 Test Method for Specific Gravity of Soils²
- D 1557 Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))²
- D 1883 Test Method for CBR (California Bearing Ratio) of Laboratory-Compacted Soils²
- D 2166 Test Method for Unconfined Compressive Strength of Cohesive Soil²
- D 2419 Test Method for Sand Equivalent Value of Soils and Fine Aggregate³
- D 2435 Test Method for One-Dimensional Consolidation Properties of Soils²
- D 2664 Test Method for Triaxial Compressive Strength of Undrained Rock Core Specimens Without Pore Pressure Measurements²
- D 2844 Test Method for Resistance R-Value and Expansion Pressure of Compacted Soils²
- D 2845 Test Method for Laboratory Determination of Pulse Velocities and Ultrasonic Elastic Constants of Rock²
- D 2850 Test Method for Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression²
- D 2936 Test Method for Direct Tensile Strength of Intact

¹ This practice is under the jurisdiction of ASTM Committee D-18 on Soil and Rock and is the direct responsibility of Subcommittee D18.99 on Quality Control. Current edition approved Oct. 10, 1999. Published December 1999. Originally published as D 3740 – 78. Last previous edition D 3740 – 99b.

² Annual Book of ASTM Standards, Vol 04.08.

³ Annual Book of ASTM Standards, Vol 14.02.

***A Summary of Changes section appears at the end of this standard.**