

ACI Field Technician Certification Program

Certification Level:

Concrete Field Testing Technician - Grade I

Definition

A Concrete Field Testing Technician - Grade I is an individual who has demonstrated the knowledge and ability to properly perform and record the results of seven basic field tests on freshly mixed concrete.

Scope and Knowledge

The program requires a working knowledge of the following ASTM Standards:

C 1064 - Temperature of Freshly Mixed Portland-Cement Concrete

C 172 - Sampling Freshly Mixed Concrete

C 143 - Slump of Hydraulic Cement Concrete

C 138 - Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

C 231 - Air Content of Freshly Mixed Concrete by the Pressure Method

C 173 - Air Content of Freshly Mixed Concrete by the Volumetric Method

C 31 - Making and Curing Concrete Test Specimens in the Field

Certification Requirements

ACI will grant certification only to those applicants who meet both of the following requirements:

- 1) A passing grade on the ACI written examination; and
- 2) Successful completion of the ACI performance examination.

The one-hour written examination is "closed book" and consists of 55 multiple choice questions. There are five (5) to ten (10) questions on each of the ASTM Standards. To pass the written examination, both of the following conditions must be met: (a) at least 60% correct for each of the required standards; and (b) a minimum score of 70% overall.

The performance examination is also "closed book" and requires actual demonstration of six of the required ASTM Standards plus a verbal description of Sampling, ASTM C 172. The examinee is judged on his/her ability to correctly perform or describe all of the required procedures for each standard.

Recertification is necessary every five (5) years, and requires successful completion of both the written and performance examinations.

The Concrete Industry Board, Inc. is the official sponsoring group for the American Concrete Institute for the five boroughs of New York City and for Westchester County. Scheduling of other times or formats for the ACI certification courses for groups of 12 will be considered upon request.