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# ACI Concrete Field Testing Technician Grade 1 Study Guide with Complete Solutions

ASTM C31 / C31M-06 - ANSWER Standard Practice for Making, Curing, Protecting & Transporting Test Specimens in the Field Conditions.

ASTM C1064 /C1064M-05 - ANSWER Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete

ASTM C172 -07 - ANSWER Standard Practice For Sampling Freshly Mixed Concrete From Different Containers Used In The Production or Transportation Of Concrete.

ASTM C143 / C143M-05a - ANSWER Standard Test Method for Slump of Hydraulic-Cement Concrete Both In Laboratory And In The Field

ASTM C138 / C138M-07 - ANSWER Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete

ASTM C231 -04 - ANSWER Standard Test Method for Air Content of Freshly Mixed Concrete by Pressure Method

ASTM C173 / C173M-07 - ANSWER Standard Test Method For Air Content of Freshly Mixed Concrete Containing Any Type Of Aggregate, Whether It Be Dense, Cellular, or Lightweight by Volumetric Method

Molds - ANSWER Mold for specimens shall be made of steel, cast iron, or other nonabsorbent material, nonreactive with concrete. Molds shall be watertight and hold their dimensions and shape under all conditions of use.

Cylindrical Specimens - ANSWER Compressive or Splitting Tensile Strength Specimens shall be cylinders cast and allowed to set in an upright position. The length shall be twice the diameter (4 X 8in or 6 X 12 in). The cylinder diameter shall be at least 3 times the nominal maximum size of the coarse aggregate. When the nominal maximum size of the coarse aggregate exceeds 2 inches the concrete sample shall be treated by wet sieving through a 2 inch sieve.

Beam Specimens - ANSWER Flexural strength specimens shall be beams of concrete cast and hardened in the horizontal position. The length shall be at least 2 inch greater than three times the depth as tested. The ratio of width to depth as molded shall not exceed 1.5. The standard beam shall be 6 by 6 inches in cross section, and shall be used for concrete with nominal maximum size coarse aggregate up to 2 inches. When

# Material Testing Technician Study Guide

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CP-2(15) Technician Study Guide Without ASTM Standards for Concrete Field Testing Technician¿Grade I (1st Edition) American Concrete Institute,2014

**ACI Manual of Concrete Inspection** ,2008 This manual is intended to guide assist and instruct concrete inspectors and others engaged in concrete construction and testing including field engineers construction superintendents supervisors laboratory and field technicians and workers Designers may also find the manual to be a valuable reference by using the information to better adapt their designs to the realities of field construction Because of the diverse possible uses of the manual and the varied backgrounds of the readers it includes the reasoning behind the technical instructions The field of concrete construction has expanded dramatically over the years to reflect the many advances that have taken place in the concrete industry Although many of the fundamentals presented in previous editions of this manual remain relevant and technically correct this eleventh edition incorporates new material to address these advances in technology

**CP-1S(15) Technician Study Guide for Concrete Field Testing Technician - Grade I (2nd Edition)(Spanish)** American Concrete Institute,2015-01-01

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