
ACI Concrete Field Testing Technician Grade 1 Study Guide Questions with Correct Answers

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

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

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

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

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

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

ASTM C173 / C173M-07 Correct 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 Correct 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 Correct 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 Correct 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 the nominal maximum size of the coarse aggregate exceeds 2 inches, the smaller cross sectional dimension of the beam shall be at least three times the nominal maximum size of the coarse aggregate.

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