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# ACI Certification Concrete Field Testing Technician Grade 1 Sample Written Test Exam 2024

The Method of determining air content of concrete containing lightweight aggregate is the pressure method. True or False? - CORRECT ANSWER-False

When making a test cylinder from concrete being used in construction, the field technician must also measure the slump of the concrete. True or False? - CORRECT ANSWER-True

While the technician is checking the slump of the concrete, there is a decided falling away or shearing off of concrete from one side of the sample. What should the technician do? - CORRECT ANSWER-Disregard the test and retest on another portion of the sample

Preparation of specimens for transport includes - CORRECT ANSWER-Determining that at least 8 hours has elapsed since the final set

If the aggregate correction factor for a given source of fine and coarse aggregate is found to be .2% in a pressure air meter, and an air content value of 5.0% is read on the gage of the same air meter containing concrete with the same aggregate, what is the correct air content in %. - CORRECT ANSWER-4.8% = 5.0 - 0.2

Strength test specimens transported from the field to the testing laboratory must be - CORRECT ANSWER-Protected from jarring, moisture loss, and freezing.

Test for slump and air content must be started within \_\_\_\_ after obtaining the final portion of the composite sample. - CORRECT ANSWER-5 mins

The minimum size for samples to be used for strength tests is \_\_\_\_\_. - CORRECT ANSWER-1 ft<sup>3</sup> = 28 L

After strike off of the measure used to determine density, a small quantity of concrete may be added to correct a deficiency. True or False? - CORRECT ANSWER-False

For normal strength concretes, what temperature range must be maintained for test cylinders during initial curing? - CORRECT ANSWER-60-80 deg F

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calculations and formulas the reader needs to pass the Master electrical competency exam About the Author Ray Holder has worked in the electrical industry for more than 40 years as an apprentice journeyman master field engineer estimator business manager contractor inspector and instructor He is a graduate of Texas State University and holds a Bachelor of Science Degree in Occupational Education A certified instructor of electrical trades he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of Vocational Education Mr Holder has taught thousands of students at Austin Community College Austin Texas Odessa College at Odessa Texas Technical Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers

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