

Concrete Coating Inspector - Level 1 Theory Exam

Exam Preparation Guide

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Introduction

The Concrete Coating Inspector Theory Exam Level 1 is designed to assess whether a candidate has the requisite knowledge and skills that a minimally qualified Concrete Coating Inspector (Level 1) must possess. A candidate should have entry-level knowledge in the proper methods of inspecting surface preparation and installation of protective coatings on industrial concrete structures and facilities.

Test Name	Concrete Coating Inspector Level 1 Theory Exam
Test Code	ConcreteCtgsIn1
Total Seat Time+	1.5 Hours (90 minutes)
Number of Questions	50
Format	Computer-Based Testing (CBT)

NOTE: A **Pass/Fail** result is provided at the end of the exam.

^{*}Total Seat Time includes 10 minutes for a Tutorial & Non-Disclosure Agreement and 80 minutes for the Exam.

Requirements

Requirements for Concrete Coating Inspector Level 1

- Prerequisites
- Certification Exams
- Additional Requirements

Prerequisites

Concrete Coating Inspector (CCI) Level 1 Course

Ethics for the Corrosion Professional Course or an equivalent training

CCI Level 1 Certification Exam Requirements

Practical Exam

Theory Exam (CBT)

Additional Requirements

Complete the AMPP Terms of Service, Candidate Agreement, and Code of Professional Conduct (in My Certification Portal)

Certification renewal requirements

- Recertification application* required every 3 years
- 1.5 years (18 months) of concrete work experience in coating inspections
- 8 Professional Development Hours (PDHs) since last renewal
- Must have satisfied Ethics requirements

Upon successful completion of requirements, the candidate will be awarded an AMPP Concrete Coating Inspector Level 1 Certification.

*Approval required

Exam Blueprint

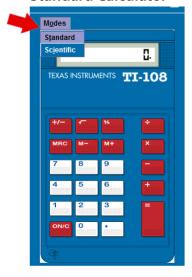
NOTE: At the end of the computer-based exam, candidates will receive a bar chart of strengths and weaknesses that correspond to these Domains.

- 1. Ambient Condition (1% 5%) 2. Coating Application (5% - 10%) 3. Coating Defect (1% - 5%) 4. Coating Inspection (25% - 30%)
- **5.** Coating Material (1% 5%)
- 6. Concrete Construction (1% 5%)
- 7. Concrete Failure (10% 15%)
- 8. Health & Safety (1% 5%)
- 9. Project Specification (15% 20%)
- 10. Standards (5% 10%)
- 11. Surface Preparation (10% 15%)

Calculators

Candidates will have access to either a TI Standard or TI Scientific calculator for use during the CBT Exam.

Standard Calculator



Standard Mode Functions

Add	+	
Subtract	_	
Multiply	X	
Divide	•	
Negative	(-)	
Percentage	%	
Square Root	$\sqrt{}$	Example: 4√
Reciprocal (Inverse)	X	Example: 1 ÷ 2 =
Store value to variable	M+	Example: 3 * 5 = M+
Access variable	MRC	Example: 7+MRC=
Clear variable	M- MRC	

Scientific Calculator



Scientific Mode Functions

Scientific Mode i directoris		
Add	+	
Subtract	_	
Multiply	X	
Divide	•	
Negative	(-)	
Percentage	2nd [%]	
Square Root	$\sqrt{}$	Example: 2nd 14 enter
Reciprocal (Inverse)	X-1	Example: 2X-1 enter
Store value to variable	sto ▶ X ^{yzt}	Example: 3 [*] 5 enter sto Xyzt enter
Access variable	X ^{yzt} or 2nd [recall]	Example: 7 + 2nd [recall] enter enter

Numeric Notation

Numeric Notation	
Standard (Floating Decimal) Notation (digits to the left and right of decimal	mode menu options NORM SCI ENG e.g. 123456.78 FLOAT 0 1 2 3 4 5 e.g. 123456.7800
Scientific Notation (1 digit to the left of decimal and appropriate power of 10)	mode menu options NORM SCI ENG e.g. 1.2345678*105

Engineering Notation mode menu options (number from 1 to 999 times 10 to an NORM **SCI** ENG e.g. 123.45678*103 integer power that is a multiple of 3)

Fractions

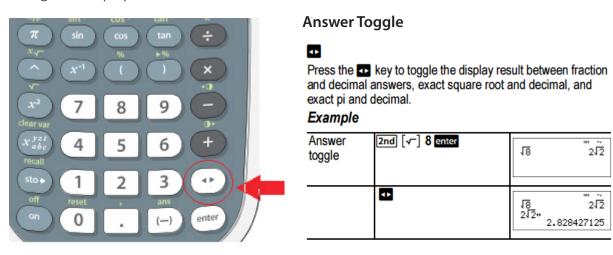
Simple fractions	n/d
Mixed numbers	2nd [Un/d]
Conversion b/w simple fraction and mixed number	2nd [n/d ◄ ▶ Un/d]
Conversion b/w fraction and decimal	2nd [f ◄ ▶ d]

Powers, roots, and inverses

i owers, roots, and inverses		
Square a value	X^2	
Cube a value	\land	
Raise value to specified power	\land	Example (2 ⁴) 2 1 4
Square root	2nd [√]	Example (√16): 2nd [√] 16
Reciprocal	[X-1]	Example (n th root): 5^{th} root of 8: $5 2nd x \sqrt{3} 8$
Pi		
ΡΙ (π)	π	

Toggle

The scientific calculator might show the results of certain calculations as a fraction - possibly involving pi or a square root. To convert this kind of result to a single number with a decimal point, you will need to use the "toggle answer" button circled in the picture below. Pressing this button will change the display from a fractional to a decimal format.



If you find this on-screen calculator difficult to use, raise your hand and ask the Test Administrator to provide you with a hand-held scientific calculator. If available, you will be provided with a scientific or non-scientific calculator. Candidates are not permitted to bring their own calculator into the testing room.