




<b>Title:</b>	Concrete Construction Level 1										
<b>Edition</b>	2										
<b>Pub Date:</b>	2021										
<b>Add. Instructor Require.:</b>											
<b>Prerequisite:</b>	Core										
<b>Previous Edition Exp. Date:</b>	1st Edition will expire in June 2021										
Book Module #	Old Mod ID # (1st Edition)	New Mod ID #	Interim Credential	Equivalent Registry Module(s)	Performance Profile	Old Mod Hours	New Hours	Mod Name	Comments	Interim Credentials (see page 3 for details)	
1	23101	23101	Yes	---	No	10	10	Introduction to Concrete Construction	Introduces role of concrete in construction & overview of proces.	IC: CP1, CF1, CR1, CH1	
2	23102	23102	Yes	---	No	5	7.5	Concrete Safety	Role of OSHA in workplace, hazards unique to concrete work.	IC: CP2, CF2, CR2, CH2	
3	---	75901	No	---	No	---	8	Fall Protection Orientation	From the Safety Series		
4	23104	23104	Yes	---	Yes	7.5	12.5	Concrete Tools and Equipment	Introduces wide variety of hand and power tools for concrete construction.	IC: CP3, CF3, CR3, CH3	
5	23105	23105	Yes	---	Yes	12.5	15	Preparing for Placement	Review of tasks before placement, elevation & subgrade preparation.	IC: CP4	
6	---	27304	Yes	27304-14	Yes	---	15	Reinforcing Concrete	From Carpentry	IC: CR4	
7	---	27307	No	27307-14	Yes	---	20	Foundations and Slabs-on-Grade	From Carpentry		
8	---	27308	Yes	27308-14	Yes	---	22.5	Vertical Formwork	From Carpentry	IC: CF4	
9	---	27309	Yes	27309-14	Yes	---	15	Horizontal Formwork	From Carpentry	IC: CF5	
10	23204	23204	Yes	---	Yes	30	35	Site Concrete	Describes construction of various placements on a site.	IC: CP5,	
11	NEW	23107	Yes	---	Yes	---	20	Finishing Concrete	Identifies and describes floating & troweling, edging, jointing, surface finishes.	IC: CP5, CF4, CR4, CH4	
12	23108	23108	Yes	---	Yes	5	10	Curing and Protecting Concrete	Describes curing and protection, factors that affect resulting strength and durability.	IC: CH5	
DELETED	23103					10		Properties of Concrete	Replaced with Carpentry module 27303 in Level 2		
DELETED	23106					12.5		Placing Concrete	Replaced with Carpentry module 27305		
DELETED	23107					20		Finishing, Part One	Combined with 23208 into new module 23120		
DELETED	27305					20		Handling and Placing Concrete			
DELETED	23109					5		Introduction to Troubleshooting	Combined with 23209 into new module 23220 in Level 2		
							<b>Total Required Hours</b>	<b>190.5</b>			

**Color Highlight Legend**

	= Lock-Down Module		= No Performance Test
	= New Module		= Deleted
	= Equivalent Module		= Interim Credential

**Registry Module Numbers:**

(-EN2) = English-language module numbers will have a language/edition number suffix in the NCCER Registry System  
 (-ES2) = Spanish-language module numbers will have a language/edition number suffix in the NCCER Registry System

**Definitions:**

**Lock-Down Module:** A module adopted 'as is' from another craft or an earlier edition of the same curriculum.

**Equivalent Module:** A module whose learning and performance outcomes match those of the newer editions and is

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<b>Previous Edition Exp. Date:</b>	1st Edition will expire in June 2021										
Book Module #	Old Mod ID # (1st Edition)	New Mod ID #	Interim Credential	Equivalent Registry Module(s)	Performance Profile	Old Mod Hours	New Hours	Mod Name	Comments	Interim Credentials (see page 3 for details)	
1	NEW	23212	Yes	---	Yes	10	15	Properties of Concrete	Updated content on chemical and mineral admixtures.	IC: CP7, CF6, CR5, CP5, CH4	
2	23202	23202	No	---	Yes	10	12.5	Estimating Concrete Quantities	Added section on calculating volume needed for placement in varying shapes.		
3	---	27310	No	27310-14	Yes	---	17.5	Tilt-Up Wall Panels	<b>ELECTIVE</b> - From Carpentry		
4	---	36108	Yes	36108-17	Yes	---	12.5	Paving	<b>ELECTIVE</b> - From Heavy Highway Construction	IC: CH5	
5	23205	23205	No	---	Yes	20	22.5	Architectural Finishes	Updated to include a full range of decorative concrete construction.		
6	23206	23206	No	---	Yes	22.5	27.5	Industrial Floors	Update on pre-placement industrial flooring considerations.		
7	23207	23207	No	---	Yes	22.5	20	Superflat Floors	Update on superflat preparation methods.		
8	23208	23208	No	---	Yes	---	15	Surface Treatments	Update on applying shakes, protective sealants, self-leveling toppings		
9	NEW	23211	Yes	---	Yes	---	15	Troubleshooting and Quality Control	Defines QC and reviews fresh-concrete troubleshooting methods based on ASTM standards	IC: CP8	
10	23210	23210	No	---	Yes	10	20	Concrete Repair	Overview of repair process, coverage of post-placement inspection.		
DELETED	23203							Forming	Replaced with Carpentry modules 27308 & 27309 in Level 1		
DELETED	23208							Surface Treatments	Combined with 23107 into new module 23120 in Level 1		
DELETED	23209							Quality Control	Combined with 23109 into new module 23220		
							<b>Total Required Hours</b>	<b>147.5</b>			
							<b>Total Elective Hours</b>	<b>177.5</b>			

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**Definitions:**

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# Concrete Construction - Interim Credentials

CP	CF	CR	CH
<u>Concrete Placement</u>	<u>Concrete Formwork</u>	<u>Concrete Reinforcement</u>	<u>Concrete in Highway Systems</u>
Core	Core	Core	Core
23101	23101	23101	23101
23102	23102	23102	23102
23104	23104	23104	23104
23105			
23204	23204	23204	23204
			23108
		27304	
23107			
23211			
			36108
	27308		
	27309		
23212	23212	23212	23212

*Abbreviation on Revision Maps*

**Module Title**

Core

Introduction to Concrete Construction

Concrete Safety

Concrete Tools and Equipment

Preparing for Placement

Site Concrete

Curing and Protecting Concrete

Reinforcing Concrete

Finishing Concrete

Troubleshooting and Quality Control

Paving

Vertical Formwork

Horizontal Formwork

Properties of Concrete