

Concrete Field Inspector Certification

Class Agenda 2023-2024

Lead Instructor (will be one of the two listed)

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Presenting Instructors

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Teaching Assistants (will be one of the two listed)

Alf Gardiner

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Timing, attendance, and breaks

Class days are from 8:00 a.m. to 4:30 p.m. Attendance will be taken in the morning and afternoon. There will be short breaks throughout the day and a 1 hour lunch break around 12:00 noon.

Deadlines (see the course webpage for more information):

The **written exam** will open for you at the end of the last day of class. You must complete the exam within one week after it is open for you, meaning the same day the following week.

View the **Technical Certification Program website** at mndot.gov/technical-certification for information about: our program and certification process, class registration, course materials and program documents, construction resources, exams, Technical Certification Card, and help and contacts.

Class Agenda

Begin	End	DAY ONE CLASS SCHEDULE		
8:00	8:15	INTRODUCTIONS		
8:15	8:30	Introduction to Concrete	PCA Book Ch. 1 PCA Book Ch. 21 PCA Book Ch. 22 PCA Book Ch. 12	Rita Lederle / Jhenyffer Asp
8:30	9:45	Portland Cement Supplementary Cementitious Materials Mixing Water Aggregates	PCA Book Ch. 2 PCA Book Ch. 3 PCA Book Ch. 4 PCA Book Ch. 5	
9:45	10:00	QUIZ & BREAK		
10:00	11:45	Chemical Admixtures Properties of Concrete Volume Changes of Concrete Durability	PCA Book Ch 6 PCA Book Ch. 9 PCA Book Ch. 10 PCA Book Ch. 11	Dan King
11:45	12:00	QUIZ & BREAK		
12:00	1:00	LUNCH		
1:00	2:00	Concrete Mixtures Air, Slump and Strength Requirements Schedule of Materials Control MnDOT Mix Designs Mix Design Quiz	MnDOT Section 3 MnDOT Section 8	Jake Gave
2:00	2:45	2461 Certified Ready-Mix MnDOT Certificate of Compliance	MnDOT Section 3 MnDOT Section 9	Gordy Bruhn
2:45	3:00	QUIZ & BREAK		
3:00	3:45	Petrography		Blake Lemcke
3:45	4:15	MnDOT Use of Petrography		Gordy Bruhn

Begin	End	DAY TWO CLASS SCHEDULE		Instructor
8:00	9:00	<u>Principal Applications</u> Reinforcing Steel Fibers Batching, Mixing Transporting and Handling	PCA Book Ch. 8 PCA Book Ch. 7 PCA Book Ch. 14	Tumer Akakin/ Jhenyffer Asp
9:00	9:45	Placing Concrete Pumping (Tyler Ley Video) Consolidation Vibration Finishing Imperfections in Concrete	PCA Book Ch. 15 PCA Book Ch 16	
9:45	10:00	QUIZ & BREAK		
10:00	11:00	Curing Hot Weather Concreting Cold Weather Concreting Cold Weather Protection	PCA Book. Ch 17 MnDOT Section 6 PCA Book Ch 18 PCA Book Ch 19 MnDOT Section 6	Jake Gave
11:00	12:00	Concrete Placement Pre-Placement Inspection Maximum Aggregate Size Steel Reinforcement	MnDOT Section 4 MnDOT Section 5	Tumer Akakin/ Jhenyffer Asp
12:00	1:00	LUNCH		
1:00	2:00	MnDOT Concrete Engineering Updates		Gordy Bruhn
2:00	3:00	Best Practices for Concrete Jointing and Inspection of Flatwork Curb and Gutter Standard Plates Driveway and Sidewalk Details	MnDOT Section 7	Gordy Bruhn
3:00	3:15	REVIEW & BREAK		
3:15	3:45	ONLINE EXAM (120 MINUTES) – OPEN BOOK EXAM OPENS AT 3:00 PM FOR 7 DAYS		
		INSTRUCTORS WILL STAY ON FOR 30 MINUTES		