



Bridge Construction Inspector Certification Class Agenda 2023-2024

BCIC-007: January 22 - February 2, 2024

BCIC-008: March 25 – April 5, 2024

Lead Instructor

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Senior Structural Engineer

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Timing, attendance, and breaks

The class day is from 8:00 a.m. to 4:30 p.m. each day, with the exception of Mondays that start at 9:00 a.m. and Fridays that end at noon. Attendance will be taken in the morning and afternoon. There will be short breaks throughout the day and a lunch break around 12:00 noon.

Deadlines (see the course webpage for more information):

The **written exam** will open for you at noon on each Friday. You must complete the exam within one week after it is open for you, meaning by the end of day Friday the following week.

For each exam, you will have 180 minutes to complete the 75 questions online. **You must score 70% or higher on both exams to pass.** If you score 60-69% on either, you may request a retest. Your final score will be the average of the two scores.

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.

Week 1		Bridge Construction Inspector Class - 2024			
Date	Timeframe	Manual Section	Training Page #	Presentation Page #	Subject
Week 1 Monday	9:00 a.m. - 9:30 a.m.				Welcome - <i>Starting at 9:00 first day</i>
	9:30 a.m. - 10:45 a.m.	1	3	21	Introduction to Bridge Structures
	10:45 a.m. - 11:00 a.m.				BREAK
	11:00 a.m. - 12:00 p.m.				35W Bridge Video
	12:00 p.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 1:45 pm	2	24	70	Bridge Layout (Surveying for Bridge Construction)
	1:45 p.m. - 2:15 p.m.				Mentimeter - Basic questions
	2:15 p.m. - 2:30 p.m.				BREAK
	2:30 p.m. - 3:30 p.m.	3	45	179	Excavation & Embankment
3:30 p.m. - 4:30 p.m.				Mentimeter Day 1 Review - 27138 Plan review	
Week 1 Tuesday	8:00 a.m. - 9:30 a.m.	Bridge plan	and proposal	proposal	Bridge Plan & Proposals -
	9:30 a.m. - 9:45 a.m.				BREAK
	9:45 a.m. - 12:00 p.m.	5	82	333	Piling (Embedded 15 minute BREAK)
	12:00 p.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 3:30 p.m.	5	cont.	cont.	Piling (Embedded 15 minute BREAK) Shortened overall time for Piling
3:30 p.m. - 4:30 p.m.	5			Piling Driving Simulation (Video & Pile Driving Activity)	
Week 1 Wednesday	8:00 a.m. - 8:30 a.m.				Mentimeter - Day 2 - Pile Driving and Plan Reading
	8:30 a.m. - 9:15 a.m.	4	72	279	Spread Footings (5 minute break at end)
	9:20 a.m. - 10:40 a.m.	6	132	692	Forms & False Work
	10:40 a.m. - 10:55 a.m.				BREAK
	10:55 a.m. -12:00 p.m.	7	153	786	Metal Reinforcement (Concrete Reinforcement) (Part 1 before lunch)
	12:00 p.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 1:45 p.m.	7	cont.	cont.	Metal Reinforcement (Concrete Reinforcement)(Continue after lunch)
	1:45 p.m. - 2:45 p.m.	7	cont.	cont.	Computing Metal Reinforcement
	2:45 p.m. - 3:00 p.m.				BREAK
3:00 p.m. - 4:15 p.m.	8	171	872	Concrete Placement for Substructures (Substructure and Concrete Quantities)	
4:15 p.m. - 4:30 p.m.				Mentimeter - Reinforcing	
Week 1 Thursday	8:00 a.m. - 12:00 p.m.	9	198	945	Structural Steel (Steel Bridge Construction) (Embedded 15 minute BREAK)
	12:00 p.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 2:15 p.m.	9	252	1228	Bridge Painting (Painting Structural Steel)
	2:15 p.m. - 2:30 p.m.				BREAK
	2:30 p.m. - 4:00 p.m.	10	280	1361	Prestressed Beam (Prestressed Concrete Beams) - With video
4:00 p.m. - 4:30 p.m.				Mentimeter - Day 4. Include add'l plan reading questions	
Week 1 Friday	8:00 a.m. - 9:15 a.m.	11	296	1457	Expansion Joints
	9:15 a.m. - 9:30 a.m.				BREAK
	9:30 a.m. - 10:30 a.m.	Suppl. - S4	719	3252	Bridge Aesthetics
	10:30 - 11:30				Review - Mentimeter Week 1 Review
	TBD - TBD				Test -TEST WILL BE COMPLETED BY STUDENTS ONLINE AT THEIR CONVENIENCE

Week 2		Bridge Construction Inspector Class - 2024			
Week 2 Monday	9:00 a.m. - 9:15 a.m.				Present Week 2 Schedule
	9:15 a.m. - 12:00 p.m.	12	306	1558	Superstructures (Concrete Placement for Superstructures) (Part 1) (15 min break)
	12:00 p.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 2:00 p.m.	12	cont.	cont.	Superstructures (Concrete Placement for Superstructures) (Part 2)
	2:00 p.m. - 2:15 p.m.				BREAK
	2:15 p.m. - 3:45 p.m.	Suppl. - S5	746	3306	Concrete Issues (Structural Concrete Bridge Construction Inspection)
	3:45 p.m. - 3:50 p.m.				BREAK
	3:50 p.m. - 4:10 p.m.				Deck Placement Video
	4:10 p.m. - 4:30 p.m.				Mentimeter - Day 6 Superstructures
Week 2 Tuesday	8:00 a.m. - 9:15 a.m.	13	353	1811	Barriers, Sidewalks and Medians
	9:15 a.m. - 9:45 a.m.	15	376	1993	Bridge Utilities
	9:45 a.m. - 10:00 a.m.				BREAK
	10:00 a.m. - 11:45 a.m.	16	388	2035	Protective Deck Wearing Course (Embedded 5 minute BREAK).
	11:45 a.m. - 12:45 p.m.				LUNCH
	12:45 p.m. - 2:30 p.m.	18	443	2204	Special Structures (Embedded 5 minute BREAK)
	2:30 p.m. - 2:45 p.m.				BREAK
	2:45 p.m. - 4:10 p.m.	Suppl. - S6	794	3399	Wall Construction
	4:10 p.m. - 4:30 p.m.				Mentimeter - Day 7
Week 2 Wednesday	8:00 a.m. - 9:30 a.m.	Suppl. - S7	n/a	3523	Dealing with Contractors
	9:30 a.m. - 9:40 a.m.				BREAK
	9:40 a.m. - 10:40 a.m.	20	471	2501	Approach Panels
	10:40 a.m. - 10:45 a.m.				BREAK
	10:45 a.m. - 12:00 p.m.	21	501	2558	Reconstruction & Widening (Part 1) - Paul K. start, Paul P. second
	12:00 p.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 4:30 p.m.	21	cont.	cont.	Reconstruction & Widening (Part 2 - Embedded 5-10 minute BREAK every hour)
Week 2 Thursday	8:00 a.m. - 8:30 a.m.	Open			Open slot for review or makeup. Mentimeter Day 8
	8:30 a.m. - 9:30 a.m.	22	644	2940	Quantities, Measurements & Documentation.
	9:30 a.m. - 9:45 a.m.				BREAK
	9:45 a.m. - 10:45 a.m.	24	n/a	3035	Regulated Materials/Waste
	10:45 a.m. - 11:15 a.m.	14	367	1934	Deck Drainage
	11:15 a.m. - 12:00 p.m.				Mentimeter - Plan Reading
	12:00 a.m. - 1:00 p.m.				LUNCH
	1:00 p.m. - 2:20 p.m.	19	458	2381	Slope Protection
	2:20 p.m. - 2:30 p.m.				BREAK
	2:30 p.m. - 4:15 p.m.	25	686	3103	Environmental Compliance
	4:15 p.m. - 4:30 p.m.				Mentimeter - Day 9
Week 2 Friday	8:00 a.m. - 9:00 a.m.	23	668	2986	Bridge Construction Safety (Bridge Construction Inspection-Safety
	9:00 a.m. - 10:15 a.m.	Suppl. - S9	856	3958	Bridge Office Resources - Checklists, and Project Documents/Submittals
	10:15 a.m. - 10:30 a.m.				BREAK
	10:30 a.m. - 10:45 a.m.				Review Plan Reading Mentimeter if not done on Thursday
	10:45 a.m. - TBD				Review - Mentimeter Week 2 Review
	TBD - TBD				Test -TEST WILL BE COMPLETED BY STUDENTS ONLINE AT THEIR CONVENIENCE