

2019-2020

# MnDOT Technical Certification and Recertification Courses

Registration at [lsc.edu/mndot](http://lsc.edu/mndot)

Aggregate Production

Bridge Construction

Concrete Strength Testing

Bituminous Plant

Concrete Field

Grading & Base

Bituminous Street

Concrete Plant

## NEW THIS YEAR!

We now have **TWO** training locations in St. Cloud:

**MnDOT St. Cloud:** 3725 12th Street N, St. Cloud 56303

**St. Cloud Technical & Community College:**  
1540 Northway Drive, St. Cloud 56303

Please make sure you know which location your St. Cloud class is being held.

**Please see pages 2-3 of this brochure for important information on the **NEW** Bridge Construction Class**

This class is now TEN days long and has several **new prerequisite requirements**. Please read all details on pages 2-3 and contact John Micheau at MnDOT (651) 366-4201 with any questions.

# TRAINING ANNOUNCEMENT & CHECKLIST

---

**CLASS:** Bridge Construction Inspection Certification

**DATES:** Monday, January 27 – Friday, February 7, 2020 (10 days)

**DESCRIPTION:** This is an advanced two week course taught in the classroom and designed for Bridge Construction Inspectors. Students receive instruction in bridge staking, excavation and embankment, foundations, steel reinforcement, sub structures, structural steel, forms and false work, prestressed beams, deck expansion joints, superstructures, deck drainage, bridge utilities, deck wearing courses, timber bridges, special structures, slope protection, documentation, approach panels, reconstruction, widening, and safety practices. This course is recommended for those involved in any type of structural construction. This is the only Bridge Construction Inspection course.

**LEARNING OBJECTIVES: After the completion of this course:**

- Identify and name of all types of bridges, and know the features that define those types of structures.
- Describe and know the function of all the various bridge elements, and the terminology used.
- Understand the need for certified materials, know how to document, test, and pay for materials used in bridge construction.
- Know the PPE required to be worn around bridge construction activities, and the potential hazards to be aware of while inspection bridge construction.
- Describe the information provided in a bridge plan, and know how to find where that information is located in the plan.
- Recognize the need for a stable foundation, and the various methods employed to achieve it, including driving pile. Know the different types of pile, the conditions that identify what type to use where, and how to compute when a pile has adequate bearing.
- Know the purpose and function of forms and falsework, the need for the inspector to take an active role in inspecting it.
- Know how to compute how much concrete and reinforcement are required for each element of a bridge.
- Know how much clearance is needed for reinforcement located in various parts of the bridge, and be able to recognize the spacing and diameter of reinforcement called out in the plans.
- Understand the importance of the superstructure, and all the elements that make it up – including bearing assemblies, concrete beams or steel girders, the deck, barriers, medians, sidewalks, railings, drainage elements, lighting, utility conduits, and expansion devices.
- Perceive the importance of other structures associated with bridges, such as slope paving, approach panels and retaining walls, know their functions and how they should be constructed.
- List the conditions that necessitate repair and rehabilitation of bridges, and understand the methods that are used to perform those repairs.

**PREREQUISITES:** Participants must have completed Aggregate Production; Certified in Concrete Field 1, Concrete Field 2, and Grading and Base 1 **PRIOR TO TAKING** the BCI certification class.

**IMPORTANT: The following AASHTO eLearning is also required:**

- Construction Inspection of Structures Series: Subsurface - AT-TC3CN053-17-T1
- Construction Inspection of Structures Series: Substructures - TC3CN054-17-T1
- Construction Inspection of Structures Series: Superstructures - TC3CN055-17-T1
- Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures - AT-TC3MN032-17-T1

**The following AASHTO eLearning is strongly recommended:**

- Concrete Series: Basics of Cement Hydration - TC3MS009-15-T1
- Concrete Series: Fresh Properties - TC3MS010-15-T1
- Math Basics Series for Highway Technicians: Introductory Math Concepts - AT-TC3ED004-17-T1

**AUDIENCE:** Employees affiliated with Bridge Construction operation who are certified in Aggregate Production, Concrete Field 1, Concrete Field 2, and Grading and Base 1.

**CLASS DETAILS:**

- Monday, January 27, 2020–Friday, February 7, 2020; 8:00 a.m. – 4:30 p.m. (10 days)
- MnDOT Training and Conference Center (1900 W County Rd I, Shoreview MN 55126)

**BRING TO CLASS:**

- Most recent edition of the Standard Specifications for Construction book
- A calculator (not on your phone)
- Notepaper
- Number 2 pencils
- Highlighter

**CLASS FEE:** \$1,800.00 - Meals will not be provided.

**REGISTRATION PROCEDURES:**

Follow your organization's external training registration procedure then register by following LSC's process. MnDOT Employees do NOT register yourself with LSC's registration system. Your Training and Development Specialist (TDS)/Training Representative will register you with LSC. If you register with LSC and attend or just show up to this training without encumbering funds with an EIOR you will be required to complete a Purchasing Violation form.

**CANCELLATION PROCEDURES:**

**LSC Cancellation Policy:**

Cancellations and class changes must be made in writing and received by the Lake Superior College (LSC) Registration Office at least seven (7) calendar days prior to the class. No refunds will be issued after that time. If a student misses a class, they are required to re-register and resubmit the class fee. Cancellations may be mailed to the address on the brochure cover. If faxing, it is your responsibility to make sure the transmission is confirmed.

**CLASS INFO:**

**For registration questions:** Shannon Wark, shannon.wark@lsc.edu, (218) 733-5959

**Content Expert:** Mark Spafford, Mark.Spafford@state.mn.us

**ADDITIONAL INFO:**

For additional information visit the Technical Certification Program website at <http://www.dot.state.mn.us/const/tcp/>.

Individuals who need a reasonable accommodation to participate in this event, please contact Janet Miller, Disability Programs Coordinator, MnDOT Office of Equity and Diversity, 395 John Ireland Boulevard, St. Paul, MN 55155, or send an e-mail to [janet.rae.miller@state.mn.us](mailto:janet.rae.miller@state.mn.us)

# 2019-2020 CERTIFICATION COURSES

## AGGREGATE PRODUCTION - \$575

ID #	DATES	LOCATION
AG1610	11.19.19 - 11.21.19	MnDOT Rochester
AG1611	11.20.19 - 11.22.19	MnDOT Rochester
AG1612	12.3.19 - 12.5.19	MnDOT Maplewood
AG1613	12.4.19 - 12.6.19	MnDOT Maplewood
AG1614	12.9.19 - 12.11.19	MnDOT Maplewood
AG1615	12.10.19 - 12.12.19	MnDOT Maplewood
AG1616	12.17.19 - 12.19.19	MnDOT Mankato
AG1617	12.18.19 - 12.20.19	MnDOT Mankato
AG1618	1.7.20 - 1.9.20	MnDOT Maplewood
AG1619	1.8.20 - 1.10.20	MnDOT Maplewood
AG1620	1.13.20 - 1.15.20	MnDOT Maplewood
AG1621	1.14.20 - 1.16.20	MnDOT Maplewood
AG1622	1.21.20 - 1.23.20	MnDOT St. Cloud
AG1623	1.22.20 - 1.24.20	MnDOT St. Cloud
AG1624	1.27.20 - 1.29.20	MnDOT St. Cloud
AG1625	1.28.20 - 1.30.20	MnDOT St. Cloud
AG1626	2.11.20 - 2.13.20	MnDOT Willmar
AG1627	2.12.20 - 2.14.20	MnDOT Willmar
AG1628	3.10.20 - 3.12.20	MnDOT Detroit Lakes
AG1630	3.17.20 - 3.19.20	MnDOT Duluth
AG1631	3.18.20 - 3.20.20	MnDOT Duluth
AG1632	3.24.20 - 3.26.20	MnDOT Bemidji

## BRIDGE CONSTRUCTION - \$1,800

ID #	DATES	LOCATION
BC2066	1.27.20 - 2.7.20	MnDOT Training & Conf Ctr

## BITUMINOUS PLANT 1 - \$575

ID #	DATES	LOCATION
BP1225	1.7.20 - 1.9.20	MnDOT Rochester
BP1226	1.8.20 - 1.10.20	MnDOT Rochester
BP1227	1.28.20 - 1.30.20	MnDOT Maplewood
BP1228	1.29.20 - 1.31.20	MnDOT Maplewood
BP1229	2.4.20 - 2.6.20	MnDOT Baxter
BP1231	3.31.20 - 4.2.20	MnDOT Duluth

## BITUMINOUS PLANT 2 - \$1,000

ID #	DATES	LOCATION
BP2051	3.16.20 - 3.20.20	St. Cloud Tech

## BITUMINOUS STREET - \$575

ID #	DATES	LOCATION
ST3062	12.16.19 - 12.18.19	MnDOT Training & Conf Ctr
ST3063	12.18.19 - 12.20.19	MnDOT Training & Conf Ctr
ST3064	1.7.20 - 1.9.20	St. Cloud Tech
ST3065	1.22.20 - 1.24.20	MnDOT Training & Conf Ctr
ST3066	2.25.20 - 2.27.20	St. Cloud Tech
ST3067	3.17.20 - 3.19.20	MnDOT Training & Conf Ctr

## CONCRETE FIELD 1 - \$625

ID #	DATES	LOCATION
CF1380	12.9.19 - 12.10.19	MnDOT Training & Conf Ctr
CF1381	1.6.20 - 1.7.20	MnDOT Training & Conf Ctr
CF1382	2.10.20 - 2.11.20	MnDOT Training & Conf Ctr
CF1383	3.3.20 - 3.4.20	Aggregate Ready Mix Assoc
CF1384	3.17.20 - 3.18.20	MnDOT Training & Conf Ctr
CF1385	4.1.20 - 4.2.20	MnDOT Rochester
CF1386	4.7.20 - 4.8.20	MnDOT Detroit Lakes

## CONCRETE FIELD 2 - \$575

ID #	DATES	LOCATION
CF2137	1.14.20 - 1.16.20	MnDOT Training & Conf Ctr
CF2138	1.21.20 - 1.23.20	MnDOT Training & Conf Ctr
CF2139	2.4.20 - 2.6.20	MnDOT Training & Conf Ctr
CF2140	2.25.20 - 2.27.20	St. Cloud Tech
CF2141	4.15.20 - 4.17.20	MnDOT Training & Conf Ctr

## CONCRETE PLANT 1 - \$575

ID #	DATES	LOCATION
CP1162	1.14.20 - 1.15.20	MnDOT Training & Conf Ctr
CP1163	1.28.20 - 1.29.20	St. Cloud Tech
CP1164	2.25.20 - 2.26.20	MnDOT Training & Conf Ctr
CP1165	3.10.20 - 3.11.20	St. Cloud Tech

## CONCRETE STRENGTH - \$300

ID #	DATES	LOCATION
CS1018	12.13.19	MnDOT Maplewood
CS1019	1.24.20	MnDOT Maplewood

## GRADING & BASE 1 - \$575

ID #	DATES	LOCATION
GB1472	12.3.19 - 12.5.19	MnDOT Training & Conf Ctr
GB1473	12.4.19 - 12.6.19	MnDOT Training & Conf Ctr
GB1474	1.7.20 - 1.9.20	MnDOT Training & Conf Ctr
GB1475	1.8.20 - 1.10.20	MnDOT Training & Conf Ctr
GB1476	1.21.20 - 1.23.20	MnDOT Duluth
GB1477	1.22.20 - 1.24.20	MnDOT Duluth
GB1478	2.4.20 - 2.6.20	MnDOT Training & Conf Ctr
GB1479	2.5.20 - 2.7.20	MnDOT Training & Conf Ctr
GB1480	2.25.20 - 2.27.20	MnDOT Rochester
GB1481	2.26.20 - 2.28.20	MnDOT Rochester
GB1482	3.10.20 - 3.12.20	MnDOT Training & Conf Ctr
GB1483	3.11.20 - 3.13.20	MnDOT Training & Conf Ctr
GB1484	3.24.20 - 3.26.20	MnDOT Baxter

## GRADING & BASE 2 - \$575

ID #	DATES	LOCATION
GB2153	12.18.19 - 12.20.19	MnDOT Training & Conf Ctr
GB2154	1.29.20 - 1.31.20	St. Cloud Tech
GB2155	2.12.20 - 2.14.20	MnDOT Training & Conf Ctr
GB2156	4.7.20 - 4.9.20	St. Cloud Tech

# 2019-2020 RECERTIFICATION COURSES

## **BITUMINOUS PLANT 1 RECERT - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
BP1R111	1.6.20	MnDOT Rochester
BP1R112	1.27.20	MnDOT Maplewood
BP1R113	2.3.20	MnDOT Baxter

## **BITUMINOUS PLANT 1 RECERT ONLINE - \$200**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
BP1R115	10.1.19	WEB BASED STUDY COURSE

## **BITUMINOUS PLANT 2 RECERT - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
BP2R38	2.24.20	<b>St. Cloud Tech</b>

## **BITUMINOUS STREET RECERT ONLINE - \$200**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
BSR0198	10.1.19	WEB BASED STUDY COURSE

## **BITUMINOUS STREET RECERT CLASSROOM - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
BSR0194	1.9.20	MnDOT Training & Conf Ctr
BSR0195	1.16.20	<b>St. Cloud Tech</b>
BSR0196	1.30.20	MnDOT Training & Conf Ctr
BSR0197	2.6.20	MnDOT Training & Conf Ctr

## **BRIDGE CONSTRUCTION RECERT - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
BRR0071	1.15.20	MnDOT Mankato
BRR0072	2.20.20	MnDOT Training & Conf Ctr
BRR0073	3.24.20	MnDOT Training & Conf Ctr

## **CONCRETE FIELD 1 RECERT ONLINE\* - \$200**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
CFR0199	10.1.19	WEB BASED STUDY COURSE

## **CONCRETE FIELD 1 & 2 RECERT CLASSROOM\* - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
CFR0192	12.11.19	MnDOT Training & Conf Ctr
CFR0193	1.8.20	MnDOT Training & Conf Ctr
CFR0194	2.3.20	MnDOT Training & Conf Ctr
CFR0195	2.12.20	MnDOT Training & Conf Ctr
CFR0196	2.24.20	<b>St. Cloud Tech</b>
CFR0197	3.31.20	MnDOT Owatonna

## **CONCRETE PLANT 1 RECERT - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
CP1R75	1.16.20	MnDOT Training & Conf Ctr
CP1R76	1.30.20	<b>St. Cloud Tech</b>
CP1R77	2.27.20	MnDOT Training & Conf Ctr
CP1R78	3.12.20	<b>St. Cloud Tech</b>

## **GRADING & BASE RECERT - \$300**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
GBR0195	12.17.19	MnDOT Training & Conf Ctr
GBR0196	1.28.20	<b>St. Cloud Tech</b>
GBR0197	2.11.20	MnDOT Training & Conf Ctr
GBR0198	4.6.20	<b>St. Cloud Tech</b>

## **GRADING & BASE 1 RECERT ONLINE - \$200**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
GBR0200	10.1.19	WEB BASED STUDY COURSE

## **GRADING & BASE 2 RECERT ONLINE - \$200**

<b>ID #</b>	<b>DATES</b>	<b>LOCATION</b>
GBR0201	10.1.19	WEB BASED STUDY COURSE

\* Students will receive MnDOT Certification only

\*All class times are 8:00 a.m. - 4:30 p.m.

**PLEASE NOTE: If any of your certifications show an expiration date of 5/31/2020, you must complete a recertification class this training season to retain certification in that area. If your certification has expired, you must successfully complete the original certification course, including any performance evaluations.**

**For more information contact John Micheau at the Technical Certification Unit.**

**Phone: (651) 366-4201 Email: john.micheau@state.mn.us**

# REGISTRATION INFORMATION

Registrations will be processed on a first come-first served basis. The class sizes are limited, so early registrations are suggested to obtain the date preferred. All registrations must be accompanied by a check or credit card number. **REGISTRATIONS WILL NOT BE PROCESSED WITHOUT PAYMENT AND A MnDOT TECH ID #.**

Registrations will be confirmed on a daily basis. If you have not received a class or waiting list confirmation notice, please contact LSC to ensure your registration has been received. Confirmations will include class date, location and general directions. Lodging reservations are the responsibility of the student.

Individuals who have a disability, either permanent or temporary, which might affect their ability to perform in a class should indicate the disability by contacting LSC at (218) 733-5931 or [suzanne.johnsrud@lsc.edu](mailto:suzanne.johnsrud@lsc.edu).

## CANCELLATION POLICY

**Students may use the registration software to make changes and cancellations.** Students cancelling at least seven (7) calendar days prior to the class will receive a refund. If a student cancels within seven (7) days of the class, no refund will be granted. All ELearning classes must be cancelled by April 24, 2020.

Companies may opt to send replacements to a class, but only if changed in the registration system. If a student misses a class, they are required to re-register and resubmit the full class fee.

## COURSE RESCHEDULING & CANCELLATION

LSC reserves the right to reschedule and/or cancel classes due to insufficient registrations. Students registered in those classes will be notified and offered an alternative date and/or location, or a refund if requested.

## RETESTING

Retesting can be scheduled through the MnDOT Technical Certification office in St. Paul by calling (651) 366-4201.

## STUDENT INFORMATION UPDATES

If a student has a change of job, address, or phone prior to attending classes, please contact LSC with the updated information.

## LODGING & MEALS

Registrants are responsible for their own meals and lodging. The MnDOT training facilities have vending machines available for food and beverage purchase.

**\*PLEASE NOTE:** The MnDOT Training and Conference Center is also known as the Arden Hills Training Center. The MnDOT Materials Lab is also known as Maplewood Lab. Duluth "LSC" is Duluth Lake Superior College. **We now have TWO training locations in St. Cloud:** MnDOT St. Cloud (3725 12th Street N) and St. Cloud Technical & Community College (1540 Northway Drive). Make sure you are aware of the correct location.

## CONTACT INFORMATION

John Micheau, Technical Certification Specialist (MnDOT)  
651.366.4201 or [john.micheau@state.mn.us](mailto:john.micheau@state.mn.us)

Shannon Wark, Registration (LSC)  
[shannon.wark@lsc.edu](mailto:shannon.wark@lsc.edu), (218) 733-5959

Suzanne Johnsrud, Customized Training Representative (LSC)  
(218) 733-5931 or [suzanne.johnsrud@lsc.edu](mailto:suzanne.johnsrud@lsc.edu)

\*All class times are 8:00 a.m. – 4:30 p.m.  
Register at [lsc.edu/mndot](http://lsc.edu/mndot)