

# Customized Training

Workforce & Community Development

## MnDOT Technical Certification

Grading  
&  
Base 1

Bridge Safety 7

Grading  
&  
Base 2

Bridge Construction 2

Signal & Lighting 2

Recertifications

2009



2010

Plan Reading

Bridge Overview

Visit us online at: [www.lsc.edu/MnDOT](http://www.lsc.edu/MnDOT) or [www.dot.state.mn.us/const/tcp/reg.html](http://www.dot.state.mn.us/const/tcp/reg.html)

# Technical Certification Courses

## Bridge Construction Inspection 2 - Tuition - \$1,275 7 credits/84 PDH's

In conjunction with the Minnesota Department of Transportation (Mn/DOT), Lake Superior College (LSC) is again offering a Bridge Construction Inspection Certification course. This is an advanced three-week course designed for personnel acting as Chief Inspector on bridge projects. Taught in the classroom, it is an in-depth look at bridge construction inspection. 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, super-structures, deck drainage, bridge utilities, deck overlays, timber bridges, special structures, slope protection, documentation, approach panels, reconstruction and widening and safety practices. This course is recommended for those involved in any type of structural construction. **There is no Bridge Construction Inspection 1 course.** This course will be offered at:

**BC2042** Mn/DOT Tng & Conf Ctr Jan. 26-Feb. 12, 2010

**Prerequisites:** Certified in Concrete Field 1 and 2 and Grading and Base 1.

Bring 2005 edition of the Standard Specifications for Construction book.

## Grading & Base 1 - Tuition - \$360 1 credit/18 PDH's

Grading and Base 1 is a three-day course required for anyone performing inspection or testing on grading projects. The course covers soils identification, the moisture-density test (proctor) field moisture and density determinations, and the Dynamic Cone Penetrometer test procedure. The course includes both classroom lectures and hands-on training in a laboratory. Successful completion of a written exam and a hands-on performance review are required. Grading & Base 1 will be offered at the following sites:

<b>GB1298</b>	Mn/DOT Tng & Conf Ctr	Dec. 8-10, 2009
<b>GB1299</b>	Mn/DOT Tng & Conf Ctr	Dec. 9-11, 2009
<b>GB1300</b>	Rochester DOT	Jan. 5-7, 2010
<b>GB1302</b>	Mn/DOT Tng & Conf Ctr	Jan. 12-14, 2010
<b>GB1303</b>	Mn/DOT Tng & Conf Ctr	Jan. 13-15, 2010
<b>GB1304</b>	Baxter DOT	Feb. 1-3, 2010
<b>GB1306</b>	Mn/DOT Tng & Conf Ctr	Feb. 16-18, 2010

**Prerequisite:** Aggregate Production Certification or Aggregate credit and basic math skills.

## Bridge Safety 1 - Tuition - \$500 2 credits/30 PDH's

This course is designed to provide knowledge of elementary concepts in bridge engineering for use by bridge inspectors. This training is intended to prepare technicians and other personnel with little or no background in bridge engineering for the more intensive course "Bridge Safety 2". Participants will be tested on their basic understanding of the course materials at the close of the training. All course materials will be provided. **A field trip to inspect, evaluate and rate bridges is included in the schedule. Personnel attending this course will be required to bring and wear the appropriate protective safety equipment (a safety vest, hard hat, eye and foot protection), also bring seasonal clothing for the field trip.** This course will be offered at:

**BS1026** Mn/DOT Tng & Conf Ctr March 15-19, 2010

## Grading and Base 2 - Tuition - \$360 2 credits/18 PDH's

Grading and Base 2 is a required **three-day** advanced course for personnel acting as lead inspectors on grading projects. This course discusses the inspector's roles and responsibilities, sub-grade soils and soils identification, excavation and embankment construction, base construction, turf establishment, geosynthetic applications and compliance with labor laws. The course is covered entirely in the classroom and requires successful completion of a written exam with a score of at least 70%. The scheduled dates and locations for the Grading & Base 2 course are as follows:

<b>GB2099</b>	Mn/DOT Tng & Conf Ctr	Dec. 15-17, 2009
<b>GB2100</b>	St Cloud DOT	Feb. 9-11, 2010
<b>GB2101</b>	Rochester DOT	March 23-25, 2010

**Prerequisite:** Grading & Base 1 Certification.

## Signal & Lighting 2 - Tuition - \$250 12 PDH's

This course is designed for agency inspectors in charge of projects involving the installation of electrical utilities, traffic signals, and lighting. It is valuable for electrical contractor personnel to familiarize themselves with Mn/DOT approved specifications and procedures. Subjects include the contract documents, materials, staking of components, pre-construction requirements, installation of signal & lighting components, final inspection, activating the electrical system, warranties and correction of original plans. This two-day course is taught entirely in the classroom and will conclude with a 90-minute open book exam on the manual and class materials. A minimum score of 70% is required for certification.

**This course will credit 4 hours technical and 4 hours code toward the Continuing Education Program for electricians.** Signal & Lighting 2 will be offered at:

<b>SL2071</b>	Mn/DOT Tng & Conf Ctr	Jan. 20-21, 2010
<b>SL2072</b>	Mn/DOT Tng & Conf Ctr	Feb. 17-18, 2010





Minnesota Department of Transportation

**CENTRAL OFFICE**

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Toll-free from Greater Minnesota: 800-657-3774 (voice) • 800-627-3529 (TTY, Voice or ASCII)

**Mn/DOT TRAINING & CONFERENCE CENTER**

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**DISTRICT Headquarters - DULUTH**

1123 Mesaba Ave  
Duluth, MN 55811  
Phone: 218-725-2700  
Fax: 218-725-2800

**DISTRICT 2A - BEMIDJI**

3920 Highway 2 West  
Bemidji, MN 56601  
Phone: 218-755-6500  
Fax: 218-755-6512

**DISTRICT 2B - CROOKSTON**

1320 Sunflower Street  
Crookston, MN 56716  
Phone: 218-277-7950  
Fax: 218-277-7954

**DISTRICT 3A - BAXTER**

7694 Industrial Park Road  
Baxter, MN 56425-8096  
Phone: 218-828-5700 or  
Toll Free: 800-657-3971  
Fax: 218-828-5814

**DISTRICT 3B - ST. CLOUD**

3725 12th Street North  
St. Cloud, MN 56303  
Phone: 320-223-6500  
Toll free: 800-657-3961  
Fax: 320-223-6580

**DISTRICT 4A - DETROIT LAKES**

1000 Highway 10 West  
Detroit Lakes, MN 56501  
Phone: 218-846-3600  
Toll-free: 800-657-3984  
Fax: 218-846-7988

**DISTRICT 4B - MORRIS**

610 Highway 9 South  
Morris, MN 56267-9596  
Phone: 320-208-7000  
Toll-free: 800-657-3877  
Fax: 320-208-7027

**DISTRICT 6A - ROCHESTER**

2900 48th Street NW  
Rochester, MN 55901-5848  
Phone: 507-285-7350  
Fax: 507-285-7355

**DISTRICT 6B - OWATONNA**

1010 21st Avenue NW  
Owatonna, MN 55060-1005  
Phone: 507-455-5800  
Fax: 507-455-5814

**DISTRICT 7A - MANKATO**

501 S. Victory Drive  
Mankato, MN 56001  
Phone: 507-389-6351  
Toll-free: 800-657-3747  
Fax: 507-389-6281

**DISTRICT 7B - WINDOM**

180 County Road 26  
Windom, MN 56101  
Phone: 507-831-1200  
Toll-free: 800-804-3295  
Fax: 507-831-1232

**DISTRICT 8A - WILLMAR**

2505 Transportation Road  
Willmar, MN 56201  
Phone: 320-231-5195  
Toll-free: 800-657-3792  
Fax: 320-231-5168

**DISTRICT 8B - MARSHALL**

1800 East College Drive  
Marshall, MN 56258  
Phone: 507-537-6146  
Toll-free: 800-657-3748  
Fax: 507-537-6137

**DISTRICT 8C - HUTCHINSON**

1400 Adams Street SE  
Hutchinson, MN 55350  
Phone: 320-234-2582  
Toll-free: 877-682-8249  
Fax: 320-234-6971



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**Registration opens October 1st! [www.lsc.edu/MnDOT](http://www.lsc.edu/MnDOT)**