



**Office of Materials and Road Research
Technical Certification Unit**

Technical Certification Handbook

FY 2018



Updated October 2017

For Your Information

REGISTRATION

Registration opens October 1st annually for all technical certification classes. Visit the LSC website at <https://training.lsc.edu/mndot-technical-certification/> for class offerings and registration information. For information on the Technical Certification Program, visit <http://www.dot.state.mn.us/const/tcp/>. This site has links to the websites of the training partners who assist MnDOT in administering certification and non-certification classes. Training partner websites also go online October 1st annually.

AGGREGATE PRODUCTION REQUIRED

Aggregate Production is required for all aggregate testers. It is also required for certification in Bituminous Plant, Concrete Plant, and Grading & Base.

Currently Aggregate Production certification does not expire. Consequently, there are no recertification classes for Aggregate Production.

PROVISIONAL LEVEL 2 CERTIFICATIONS ELIMINATED

Level 2 provisional certifications have been eliminated effective September 1, 2005.

CERTIFICATION CARDS

Certification cards normally mailed in mid-June. Cards returned to us are held until you notify this office of your current address.

RECERTIFICATION

Successful completion of a Level 2 certification class will extend the corresponding Level 1 certification to the Level 2 expiration date. Otherwise, individuals must take the requisite recertification class. **IF AN INDIVIDUAL FAILS A LEVEL 2 RECERTIFICATION CLASS, THEY MUST RECERTIFY THE LEVEL 1 CERTIFICATION TO RETAIN IT.**

KEEP YOUR CONTACT INFORMATION CURRENT

Has your mailing or personal email address changed lately?

If so, please contact the Technical Certification Unit at

John.micheau@state.mn.us

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INTRODUCTION

The Technical Certification Unit developed this handbook to help you better understand the MnDOT Technical Certification Program (TCP). It addresses questions commonly asked about the program. However, for the sake of brevity, it does not address every aspect of the program. For questions not covered in this handbook, contact the Technical Certification Unit at (651) 366-4201.

This program is similar to other technician certification/qualification programs offered across the United States. By Federal mandate all state transportation departments have a technical certification program for construction and/or materials testing technicians. Programs vary somewhat from state to state but have a common objective: to gauge technician expertise and ensure a minimum level of competency.

TCP training courses are developed and taught cooperatively by MnDOT and various proponent agencies. Technical experts from MnDOT, private industry, and educational institutions teach these courses. Using experienced instructors is extremely helpful to students, especially during the hands-on training sessions conducted in a MnDOT or private industry materials laboratory.

People from all areas of the construction industry attend MnDOT technical certification courses. They receive various certifications through successful completion of classroom and laboratory training, written examination, and performance review. Many bring a wealth of experience with them, which they often share with others in the classroom. The communication and cooperation fostered in the classroom is one of the most beneficial aspects of the program.

Certain recertification courses are being offered On-Line for those that prefer independent study to normal classroom learning. If you prefer an On-Line course verses a classroom please check each year, during registration, to see if the recertification course you need is offered On-Line.

The MnDOT Technical Certification Unit has responsibility for granting certifications and issuing certification cards. Its policy and procedure is developed from administrative law, Department policy, and input from the Technical Certification Advisory Committee comprised of representatives from both the public and private sector.

If you have questions regarding course content or certification policy, contact:

The Technical Certification Unit,
Phone: (651) 366-4201
Email: john.micheau@state.mn.us
Or write: MnDOT Materials & Road Research
Technical Certification Unit, MS 645
1400 Gervais Ave
Maplewood MN. 55109

TECHNICAL CERTIFICATION PROGRAM SUMMARY

There are two levels of technical certification:

Level 1: referred to as a "tester" or "field tester" level. This level is for individuals with limited responsibility who normally work under the direction of a supervisor. Often, materials testing and/or sampling is the sole duty of a Level 1 technician.

Level 2: referred to as the "inspector" level; is an advanced certification for individuals in a decision-making role, such as project supervision or oversight. Chief Inspectors, Mix Designers, etc., require Level 2 certification.

Technicians receive certification through successful completion of the required MnDOT Technical Certification Program curricula for that particular certification area. Successful completion consists of:

- Classroom or On-Line instruction,
- Written examination,
- And, if required, a hands-on performance evaluation.

Only training courses approved by the Minnesota Department of Transportation are accepted for technical certification. See the section on *Certification Areas* for the specific requirements for each certification area.

Technical certification training is a cooperative effort between the Minnesota Department of Transportation and various agencies. Cooperating agencies include:

- Aggregate Ready-Mix of Minnesota
- Lake Superior College
- National Highway Institute
- Transportation Curriculum Coordination Council (TC3)

Requirements for a certified technician are included in the ***Standard Specifications for Construction Handbook***; project **Special Provisions** and the **Schedule of Materials Control for Federal Aid Projects**. Certification is required for all individuals sampling or testing material on all state projects. Refer to the contract proposal for technical certification requirements on State Projects. Certification is required for personnel on all State Aid Projects as specified by the MnDOT Division of State Aid. Contact Joel Ulring, PE, at 651-366-3831 concerning certification on State-Aid projects.

Technical certifications expire at the end of five years. Technicians must recertify before their certification expires. Recertification is for five years. For more information, see the section on *Recertification*, page 13.

The *Certification Areas* section of this handbook lists specific requirements for each certification.

ELIGIBILITY FOR CERTIFICATION

The certification program is designed primarily for personnel already working in highway construction. Experience is highly recommended, but not required, for certification. To be eligible for certification, you must successfully complete all classroom training, written examination, and any related performance evaluation.

Seasonal workers, such as students or laborers, may obtain a *provisional testing certificate* in a specific area. Provisional *testing certificate* is for individuals who need testing privileges for only one season and who demonstrate proficiency in one or more related material testing procedures. See the *Provisional testing certificate* section on page 9 for more information.

Most certification classes require mathematical calculations and formulas at various proficiency levels. Students should be proficient with a scientific calculator and familiar with mathematical functions, including percentages, ratios, fractions, decimals, metrics, engineering type formulas, and basic algebra.

The Aggregate Production class is required for all aggregate testers, and is required for certification in Bituminous Plant 1, Concrete Plant 1, and Grading & Base 1.

If you completed a MnDOT Level 1 Bituminous Technology 2A or 2B, Bituminous QM, Concrete Plant, or Grading and Base class prior to October 1, 1995 you received credit for the Aggregate Production requirement.

CERTIFICATION OF ENGINEERS

Federal Highway Administration (FHWA) guidance clarifies who needs technical certification. All personnel who perform field or laboratory materials sampling, testing or inspection, or concrete or bituminous mix designs on federal aid, state aid and state trunk highway projects, must be certified. This includes registered, professional engineers. **This policy does not include registered professional engineers working on non-trunk highway projects.**¹

For information on FHWA guidance, refer to the link below.

<https://www.gpo.gov/fdsys/pkg/CFR-2011-title23-vol1/pdf/CFR-2011-title23-vol1-part637.pdf>

¹ Please refer to the *State Aid Contract Administration Manual* - Chapter 5.6

CERTIFICATION CARDS

Each year the Technical Certification Unit issues a certification card to all certified technicians. These certification cards are issued in June annually and expire May 31 of the following year.

Certification cardholders are responsible for ensuring that:

- they receive a new certification card each year, and,
- certification areas and dates are correct, and,
- All other information listed (name, address, personal email and employer) is correct.

Certified personnel must present a valid certification card on demand of a MnDOT Independent Assurance Inspector, MnDOT Plant or Field Inspector, MnDOT Lab Supervisor, local agency inspector, or Federal Highway Administration official.

There are two types of certification cards: formal and provisional.

Formal certification cards are wallet-sized cards signed by the MnDOT Construction Engineer and MnDOT Bridge Engineer. These cards are issued each year by the certified individual and will list the expiration date for each certification area the technician holds. Formal certification is granted for five years. Prior to the end of the fifth year, one must successfully complete the associated recertification course to retain that certification. See the *Recertification* section, page 13, for more information.

Provisional Certification Cards (Provisional testing certificate cards) are issued by the MnDOT District *Independent Assurance Inspector* in which the individual works. Contact the Independent Assurance Inspector (IAI) to request provisional certification.

Provisional testing certificate cards must be signed by the granting authority, are valid only for material testing in the District in which it was issued and expire December 31 of the calendar year of issue.

For more information see the section on *Provisional Certification (Provisional testing certificate)* page 9.

Following is a comparison between the two types of certifications:

	Formal certification	Provisional testing certificate	*
Card issued by:	Technical Certification Unit	IAI	Some
Certification expires:	5 years from year granted	End of calendar year issued	
Can work alone:	YES	NO	
Can be recertified:	YES	NO*	
Level 2 certification:	YES	NO	

exceptions apply. See page 9 of next section, *Provisional Certification*.

PROVISIONAL CERTIFICATION

- Provisional Certifications are not a full certifications. They give an individual the right to perform a certain tests marked on the provisional certification card.
- Provisional Certification are limited to specific Level 1 testing procedures, such as gradations, concrete air or slump tests or sand cone density.
- Provisional Certification is not available for Level 2.
- Provisional Certifications are only valid for material testing in the District in which it was issued and expire December 31 of the year in which it was issued.

A Provisional Certification is offered once, Individuals who receive a provisional certification must attend formal certification training classes during the next training season.

The advantage of provisional certification is that it allows companies or agencies to utilize new or temporary employees to perform routine field/laboratory sampling or testing normally requiring certification.

The following also apply to provisional certification:

- A provisionally-certified technician cannot be used in lieu of a certified technician, but must be under the direct supervision of a Level 1 or Level 2 individual formally certified in the same technical area. An exception is given if the provisional tester who carries a communication device that provides immediate contact with their certified supervisor. **Supervisor must be available during all operating hours and must be available at the testing location within 1 hour when required.**
- Individuals who successfully complete the written examination and performance review for Level 1 Bituminous Plant, Concrete Plant or Grading & Base, but were unable to attend the Aggregate Production class, may obtain provisional certification (provisional testing certificate).
- Provisional Certifications are not issued for Bituminous or Concrete Plant Level 1 certification due to the requirement to thoroughly review for accuracy and sign the production and/or batch tickets. This can only be done by technicians holding full formal Plant level 1 or 2 certifications.
- Full-time students working construction jobs can be provisionally certified each summer until graduation.
- An individual may be provisionally certified for one additional year with the approval of the MnDOT District Materials Engineer. The District Materials Engineer will consider each exception on an individual basis.

Applicants seeking a provisional testing certificate will be required to complete a performance review administered by a MnDOT Independent Assurance Inspector (IAI) in the District the person will be working. The appropriate MnDOT Independent Assurance Inspector will issue a temporary provisional testing certificate card, allowing an individual to perform one or more test procedures i.e.: Air Test, Slump Test, Cylinders, Gradations, Moisture, Soil Density, Percent Crushing, Proctor, Rice, Spot Check, Extraction, Bulk Specific Gravities and Sampling.

NOTE: Any individual, who is provisionally certified in a District, and then moves or transfers to another District, must be go through the provisional testing process again in the new district. Notify the Independent Assurance Inspector in the new District to arrange a review.

See the Reference Section on pages 35-36 for a list of MnDOT District Independent Assurance Inspectors.

Provisional Testing Certificate Fees

There is no fee for the initial review of a field tester (all testing areas). A \$150 fee², payable to the Commissioner of Transportation, will be charged for each subsequent review when the initial review has not resulted in a provisional certification (provisional testing certificate).

Contact the TCP Unit at (651) 366-4201 or john.micheau@state.mn.us for more information.

CERTIFICATIONS FROM OTHER STATES (RECIPROCITY)

Individuals certified by another State Transportation Department may request Minnesota Department of Transportation certification. The decision to grant certification in any area is at the sole discretion of the MnDOT Technical Certification Specialist. Generally, MnDOT certification based on another state's certification is only granted in cases where the course requirements are substantially the same between the states.

To gain MnDOT certification will require the individual to complete a Test-out Application and return it to the Technical Certification Unit to be considered for reciprocity. Applications are available from the TCP website at: <http://www.dot.state.mn.us/const/tcp/pubs.html>. Individuals must pass a written examination to become certified.

The application requests information concerning your levels of experience, projects worked on, and training courses completed. Consideration for certification is dependent on a completed application form showing expiration dates of current certifications in home state. Attach additional sheets if required.

Individuals, who intend to become certified through the test-out process, will receive the appropriate course materials prior to taking the examination. A fee for the course manual(s) and administration of the written examination will apply for each class. See the "Test-Out for Certification" section on pages 16.

² *Full-time Students working summers can be provisionally certified each summer until graduation without charge.*

REGISTRATION AND ENROLLMENT

Technical certification class registration opens **October 1st** every year.

All registration procedures are handled through;

Lake Superior College <https://training.lsc.edu/mndot-technical-certification/>

Robyn Rohweder Phone (218) 733-5932 Email robyn.rohweder@lsc.edu

Suzanne Johnsrud Phone (218) 733-5931 Email suzanne.johnsrud@lsc.edu

Technical Certification Classes -

- Aggregate Production
- Bituminous Plant 1
- Bituminous Plant 1 Recertification
- Bituminous Plant 1 Recertification (on-line course)
- Bituminous Plant 2
- Bituminous Plant 2 Recertification
- Bituminous Street
- Bituminous Street Recertification
- Bituminous Street Recertification (on-line course)
- Bridge Construction
- Bridge Construction Recertification
- (ACI) Concrete Field Testing Technician - Grade 1
- Concrete Field 1 MnDOT only Recertification (on-line course)
- Concrete Field 1 MnDOT only Recertification
- Concrete Field 2
- Concrete Field 2 Recertification
- Concrete Plant 1
- Concrete Plant 1 Recertification
- Concrete Plant 2
- Concrete Plant 2 Recertification
- Concrete Strength Testing
- Grading & Base 1
- Grading & Base 2
- Grading & Base Recertification
- Grading & Base 1 Recertification (on-line course)
- Grading & Base 2 Recertification (on-line course)

MnDOT employees-

MnDOT personnel will need supervisor approval to enroll and will **register through your Training & Development Specialist (TDS) or Office Manager. Do Not contact LSC** directly as they cannot register MnDOT employees for these training sessions.

Any changes to class registration will be through LSC in writing 7 calendar days before the course starts.

COURSES REQUIRED FOR CERTIFICATION

The chart below shows the requirements for certification:

CERTIFICATION AREA	LEVEL 1	LEVEL 2
Aggregate Production	<ul style="list-style-type: none"> - Aggregate Production - Lab Evaluation 	<i>(No Level 2 certification)</i>
Bituminous Plant	<ul style="list-style-type: none"> - Aggregate Production³ - Bituminous Plant 1 - Lab Evaluation 	Level 1 certification Bituminous Plant 2 Approved Mix Design
Bituminous Street	<i>(No Level 1 certification)</i>	<ul style="list-style-type: none"> - Bituminous Street
Bridge Construction	<i>(No Level 1 certification)</i>	<ul style="list-style-type: none"> - Aggregate Production³ - Grading & Base 1 - MnDOT Concrete Field 1 or ACI Concrete Field Testing Technician Grade 1 - Concrete Field 2 - Bridge Construction
Concrete Field	<ul style="list-style-type: none"> - MnDOT Concrete Field 1 or ACI Concrete Field Testing Technician Grade 1 - Performance Evaluation 	<ul style="list-style-type: none"> - MnDOT Level 1 certification or ACI Concrete Field Testing Technician Grade 1 - Concrete Field 2
Concrete Plant	<ul style="list-style-type: none"> - Aggregate Production³ - Concrete Plant 1 	<ul style="list-style-type: none"> - Level 1 certification - Concrete Plant 2
Grading & Base	<ul style="list-style-type: none"> - Aggregate Production³ - Grading & Base 1 - Lab Evaluation 	<ul style="list-style-type: none"> - Level 1 certification - Grading & Base 2
Concrete Strength Testing	<ul style="list-style-type: none"> - MnDOT Concrete Field 1 or ACI Concrete Field Testing Technician Grade 1 - Concrete Strength Testing - Lab Evaluation 	<i>(No Level 2 certification)</i>

Although discouraged, courses may be taken out of order. However, certification is not granted until all certification requirements are fulfilled. For more information call (651) 366-4201.

For Recertification, all prerequisites must be kept current.

Currently Aggregate Production certification does not expire. Consequently, there are no recertification classes for Aggregate Production.

³ Completion of a Level 1 Bituminous Plant, Concrete Plant or Grading & Base class prior to October 1, 1995 grants credit for the Aggregate Production prerequisite.

RECERTIFICATION

To maintain certification, technicians must successfully complete a recertification class before their certification(s) expire. **Certifications expire May 31st of the fifth year of certification.** Certifications that have lapsed are ineligible for recertification by attending a recertification class. To regain their certification, they must attend the original certification course or, if expired less than 1 year, attempt certification through a self-study test-out. Currently Aggregate Production certification does not expire. Consequently, there are no recertification classes for Aggregate Production.

For self-study test-out information see page 16

For Recertification, all Prerequisites must be kept current, (see previous page.)

Successful completion of the requisite recertification course extends that certification for 5 years.

Individuals may attend a recertification course no sooner than two seasons prior, but not after that certification expires. For example, if your certification in Concrete Field Level 1 expires on 5/31/18, you may take the Concrete Field recertification course no earlier than the 2016-2017 training season, but not later than the 2017-2018 training season.

All recertification courses include a written examination. One must pass the written examination with a minimum score of (70) seventy percent. Individuals scoring at least (60) sixty percent are allowed one retest at no additional charge. A score of less than (60) sixty percent requires the individual to successfully complete the original certification course to regain that certification.

Some certifications, such as Concrete Field and Grading & Base, have a single recertification class. Other certifications, such as Concrete Plant and Bituminous Plant, have separate recertification classes for Level 1 and Level 2. **In either case, successful completion of the Level 2 exam grants recertification at both levels.**

NOTE: Should an individual fail the Level 2 recertification exam, that individual must successfully complete the Level 1 recertification course to retain Level 1 certification in that area. Contact the Technical Certification Program office at 651-366-4201 for more information.

Performance reviews are not required for MnDOT recertification

RETEST

A retest may be requested in the case of a failed course examination if the individual meets the following requirements:

1. Scored from 60 – 69 on the written exam.
2. Must have successfully completed the performance review, if required.
3. Must contact the Technical Certification Office for retest instructions.
4. Must retest prior to October 1 (the start of the new training season).
5. ACI retests are arranged through Aggregate and Ready Mix Association of Minnesota at (952) 707-1250.

In the following four cases, the individual must successfully complete the original Technical Certification Program certification course:

1. Received a score of less than 60 percent correct on any written examination.
 2. Received a score of less than 70 percent correct on any test-out examination.
 3. Did not successfully complete the required performance review.
 4. Received a score of less than 70 on a retest exam.
- There is no fee for MnDOT retests.
 - A retest fee does apply for ACI Concrete Field Testing Technician Grade 1 re-examinations. If you need to request a retest for this class, contact Aggregate and Ready Mix Association of Minnesota at (952) 707-1250.
 - For all other retest requests contact the MnDOT Technical Certification Unit at (651) 366-4201 or email john.micheau@state.mn.us

REVOCACTION OF CERTIFICATION

MnDOT Technical Certification Program grants certification upon satisfactory completion and maintenance of certain conditions and may be revoked upon any breach of these conditions.

Generally, certifications may be revoked if, in the opinion of MnDOT's Technical Certification unit, an individual has knowingly committed acts detrimental to the integrity of the Certification Program or transportation industry. Examples of situations that warrant revocation are:

- Deliberate falsification of field or quality control test results or records.
- Deliberate falsification of calculations, test results or materials to be used when submitting mix for verification or requesting 'Mix Design Reports.'
- Cheating on certification exams or performance evaluations.
- Submittal of false information on certification applications.
- Submitting trial mix mixture and/or calculations completed by someone other than the signatory, or knowingly supplying trial mix mixture and/or calculations for another individual's certification.

The length of revocation will be established on a case by case basis by MnDOT's Technical Certification Unit, but will be no less than one year. An individual may reapply for certification after the period of revocation expires.

The MnDOT Audit Unit will take the lead in gathering facts and investigating any allegations which may require revocation of a certification.

MnDOT's Technical Certification Unit will notify an individual in writing of intent to revoke certification(s). The individual has 10 business days from the date of receipt of the notification to respond in writing to MnDOT and present information to support their continued certification and/or request an opportunity for a meeting to present their case. If the individual fails to respond within 10 days of receipt of the original notification of revocation letter, the revocation becomes final.

Not later than 10 business days after receiving a request for a meeting from the individual, MnDOT's Technical Certification unit will schedule a meeting in which the individual can present their case. If MnDOT's Technical Certification unit is not persuaded by the information provided by the individual and continues to believe that revocation of the certification is warranted, MnDOT's Technical Certification unit will refer the matter to the Engineering Services Division Director for review. All information including any letter(s) of explanation from the individual will accompany the documents submitted to the Engineering Services Division Director. MnDOT will mail the decision of the Engineering Services Division Director for or against revocation of certification to the individual concerned.

TEST-OUT FOR CERTIFICATION

Individuals who are attempting to regain a certification that has expired less than 1 year, or gain certification through reciprocity with another state, may apply for certification through test-out. A test-out presumes that the applicant has a broad knowledge of the material and is proficient in MnDOT procedures in that area. **Individuals requesting certification through reciprocity must show testing compatibility with MnDOT and current certification expiration dates.**

**TEST-OUTS ARE NOT FOR THE CONVENIENCE OF THE APPLICANT.
FOR TEST-OUTS, ALL PREREQUISITES MUST BE CURRENT.**

To request certification through test-out, submit a Test-out Application to the address on page 2 of the form. This form is available from the TCP web site at: <http://www.dot.state.mn.us/const/tcp> Click on **Forms and Publications** on the top menu bar and click **Test-out Application and Instructions** on the list of forms.

Complete the application, indicating all related training and experience, **including showing Testing compatibility with MnDOT**. All applications must be signed by the applicant. The Technical Certification Unit will contact the applicant about the application and provide further instructions on how to proceed.

If the test-out is approved, the applicant will receive a letter in the mail instructing them where to send payment. Once payment is received, they will get a 2nd letter with instructions on who to contact to take their exam once they are ready. After reviewing the material, the applicant contacts the exam proctor to arrange a time and location to complete the written examination. Once this process is completed the applicant will be notified by a Technical Certification Program representative as to the results of their exam.

Applicants must complete the written examination within 1 year from the date of application or they will forfeit the test-out fees. Applicants will need to reapply and pay the test-out fee(s) if they want to pursue the test-out process again.

THERE ARE NO RETESTS FOR TEST-OUTS

Test-outs fall into two categories: Newly expired certifications and those looking for certification through reciprocity with another state.

Certification through Reciprocity-

To gain certifications through reciprocity, one must meet all of the following requirements⁴ :

- Level 1-**
1. Currently certified in another state for the same discipline
 2. Currently works in construction inspection and/or materials testing.
 3. Two years' experience in construction inspection and/or materials testing.
 4. Submit a completed Application for Certification, and any required fees.
 5. Successfully complete the written examination and prerequisite classes⁵.
- Level 2-**
1. Must meet all requirements for level 1, plus
 2. Five years of recent and relevant experience, or certified in that area for the past two years.
 3. Submit a completed Application for Certification, and any required fees.
 4. Successfully complete the written recertification examination.

⁴ Only training courses approved or taught by the Technical Certification Program will be accepted for certification.

⁵ Aggregate Production is required for certification in Bituminous Plant, Concrete Plant and Grading and Base.

Newly Expired Certifications –

Individuals whose certification(s) have expired less than 1 year may request a test-out to regain their certification. This involves successfully completing the full written examination for the original course.

Successful completion of the written examination will restore that certification area for another five years. A score of less than 70 percent correct will require you attend the original course to regain your certification.

THERE ARE NO RETESTS FOR TEST-OUTS.

To request a test-out, you must complete, sign and return a **Test-out Application**. The application requests information concerning your experience and training. It is important that the application be complete and is signed by the applicant.

Test-out Fees

Fees for the test-out examination are handled through the process explained in the letter sent from the Technical Certification Office stating approval of the test-out application. Fees for test-outs will be the current recertification fee for each area.

Test-out applicants must complete the examination within 365 days (1 year) from the application date. Applicants failing to complete the test-out during this time forfeit all fees, and must resubmit the application and all associated fees. Fees for test-out applications are not eligible for refund.

For more information concerning test-out fees, call (651) 366-4201

CERTIFICATION AREA REQUIREMENTS

Normally project responsibilities fall into two categories: *Agency/Owner* and *Contractor*. The following is a definition of who comprises the two categories:

Agency/Owner: Any MnDOT (Agency/Owner), or County, City or Consultant personnel representing the Agency/Owner. These individuals are responsible for performing or monitoring QC/QA materials testing.

Contractor/Producer: Prime or sub-contractor personnel responsible for performing, supervising or monitoring the QC materials testing on a given project. These responsibilities are frequently different on a project. This difference is reflected in the following “Who needs certification:” criteria for each certification area.

AGGREGATE CERTIFICATION

Level 1 – Aggregate Tester

Who needs certification?

Agency/Owner: Required for certification in Bituminous Plant, Concrete Plant, and Grading & Base. Certification is required for all MnDOT Independent Assurance Inspectors and anyone who performs aggregate quality control and/or assurance sampling/testing.

Contractor: Required for certification in Bituminous Plant, Concrete Plant, and Grading & Base. For anyone who performs aggregate quality control and/or assurance sampling/testing⁶.

Requirements:

- Completion of the Aggregate Production course, a minimum score of seventy percent (70) on the written exam, and successful completion of the related performance review.

Performance review consists of the following tests:

- AASHTO T2 Aggregate Sampling
- AASHTO T248 Sample Reduction
- AASHTO T27 Coarse Sieves analysis
- AASHTO T27 Fine Sieves analysis
- AASHTO T84 & 85 Specific Gravity & Absorption of Fine & Course Aggregate
- - #200 Course Wash Out
- Spall/Litho
- AASHTO T335 % Crushed
- AASHTO T113 - #4 Shale (Float) Test (*modified to use #30 sieve*)

Level 2 - Currently there is no Level 2 certification in this area.

PLANT CERTIFICATION

⁶ *Aggregate tester certification is required for aggregate suppliers on all MnDOT jobs. See the Special Provisions of the project contract.*

Level 1 - Bituminous Plant - Tester

Who needs certification?

Agency/Owner: All Bituminous Plant Inspectors/Monitors, MnDOT Independent Assurance Inspectors, and anyone who performs monitoring or verifies bituminous mixture quality control and assurance tests.

Contractor: Anyone performing bituminous mixture quality control testing, including, but not limited to: sampling, splitting, producing test specimens, maximum and bulk specific gravities, Tensile Strength Ratio (Lottman), spot checks, and extractions.

Requirements:

- Aggregate Production certification.
- Completion of Bituminous Plant 1 class (3 days)
- A minimum score of seventy percent on the written examination.
- Successful completion of the required performance review⁷.

Performance review consists of the following tests:

Rate of sampling	MnDOT Schedule of Materials Control
Bit Plant 1 course manual	Sampling behind the paver
Bit Plant 1 course manual	Sampling (Truck Box)
AASHTO T248	Splitting (MnDOT lab manual 1201)
AASHTO T308 Method "A" Modified	Ignition Oven (MnDOT lab manual 1853)
AASHTO T308 Method "A"	Solvent, Mixture Calibration Process
AASHTO T209 Modified	Maximum Specific Gravity (MnDOT lab manual 07)
AASHTO T312 Modified	Gyratory Compaction (MnDOT lab manual 1820)
AASHTO T166 Modified	Bulk Specific Gravity (MnDOT lab manual 1806)
AASHTO T269 Modified	Void Calculation (MnDOT lab manual 1808)
AASHTO T166 Modified	Density cores (MnDOT lab manual 1810)
AASHTO T84 & T85	Rap procedures (Gsb) (MnDOT lab manual 1815)
AASHTO D4867 Modified	Lottman (MnDOT lab manual 1813)
AASHTO D6752-D2 Modified	Corelock System. (MnDOT lab manual 1816)
AASHTO T304	Fine Aggregate Angularity (MnDOT lab manual 1206)

NOTE: Individuals have one-year from the date of the class exam to successfully complete the performance review. If the performance evaluation is not done within one year, one must again attend and successfully complete the course to be eligible for certification.

Bituminous Plant certification - continued on next page

⁷ To successfully complete the course, students must also complete a hands-on performance review. An Independent Assurance Inspector (IAI) or District Lab Supervisor conducts this evaluation. See Reference Section for Lab locations and phone numbers.

Level 2 - Bituminous Plant - Mix Designer⁸,

Who needs certification?

Agency/Owner: All personnel who design, adjust, verify and/or approve mix designs and/or their related calculations.

Contractor: All personnel who are responsible for the design, adjustment, calculations and submittal of bituminous mix designs and/or supervise quality control testing.

Requirements:

- Level 1 certified.
- Completion of the Bituminous Plant 2 class (5 days)
- Score a minimum of 70 percent correct on the written examination
- Successful completion of the required performance review⁹

NOTE: Upon successful completion of the course and written examination, the student must develop a bituminous mix design (2360) and submit it with all required documentation and related mixture materials to the MnDOT Maplewood Lab for verification. Submittals must be delivered to the MnDOT Maplewood Lab not later than one year from the date of the class exam. If the mix design is not submitted and verified within that one year, the individual will be required to re-attend and successfully complete the class again to be eligible for certification in this area.

See Reference Section for MnDOT District Laboratory locations and phone numbers.

⁸ *On a Federal-aid or State-aid project a Level 2 Bituminous Plant Mix Designer is required if the local agency is performing mix design or mix adjustments. If MnDOT is doing these, the local agency is not required to have Level 2 certification.*

⁹ *To be certified at Level 2 individuals must successfully complete the written examination, and personally submit a 2360 trial mix design (mixture, related calculations and required documentation) for verification.*

BITUMINOUS STREET CERTIFICATION

Who needs certification?

Agency/Owner: Anyone working on a bituminous paving project, obtaining and/or splitting samples and all MnDOT Independent Assurance Inspectors.
Minimum one certified inspector per project, preferably one for each major work area (Chief Inspector).

Contractor: Personnel who obtain and/or split field mixture samples during the paving process.
A minimum of one certified individual per paving project. Preferably one certified individual for each major work area (Paving Superintendent).

Requirements:

- Completion of the Bituminous Street class (3 days)
- A minimum score of seventy (70) percent on the written examination.

BRIDGE CONSTRUCTION CERTIFICATION

Bridge Construction - Inspector

Who needs certification?

Agency/Owner: A certification is required for construction of significant structures (cast-in-place concrete culverts, pile supported structures, bridges, retaining walls, etc.).

Precast concrete box culverts are inspected during fabrication and a lesser level of inspection is required at the construction site.

A certification is not needed for precast concrete box culvert construction.

All personnel acting as “chief inspectors” on bridge construction projects must be certified, a **minimum** of one certified individual per project.

Please refer to footnote¹⁰.

Contractor: None

Requirements:

- Aggregate Production certified.
- Level 1 Grading & Base certified.
- Level 1 and Level 2 Concrete Field certified.
- Completion of the Bridge Construction class (14 days)
- A minimum score of seventy (70) percent on each of the three written examinations.

¹⁰ *It is not required that a local agency provide a Level 2 certified street or field inspector for each bridge, grading, bituminous, or concrete project. The Level 2 certified person may handle or be available to several projects at one time in a “chief inspector” capacity for operations relating to their areas of certification.*

CONCRETE FIELD CERTIFICATION

Level 1 - Certified ACI Concrete Field Testing Technician Grade 1

Who needs certification?

Agency/Owner: All personnel performing or overseeing field testing of fresh concrete. Tests may include but are not limited to percent air, slump, casting cylinders and beams, temperature, unit weight, and calibration of test equipment. This includes all MnDOT Independent Assurance Inspectors.

Contractor: All personnel performing field tests on fresh concrete. Tests may include but are not limited to percent air, slump, casting cylinders and beams, temperature, unit weight, calibration of test equipment, etc. (Prestressed Concrete plant personnel).

Requirements:

- Completion of the ACI Concrete Field Testing Technician Grade 1 (2 days).
- A minimum score of 60 percent correct is required for each section of the ACI exam, and seventy percent overall.
- Successful completion of the performance review.
Performance review consists of the following tests:
Sampling, Slump, Unit Weight, Air-Pressure Meter, Cylinders, Beams,
Temperature, and Roll O Meter.

ACI certification is obtained and maintained at the discretion of American Concrete Institute (ACI) and the certified individual. It is the responsibility of the individual to be aware of their certification expiration dates.

Beginning 2017 MnDOT went with the ACI certification for performing field tests on fresh concrete.

The ACI certification card must be shown to any MnDOT project personal or Independent Assurance Inspector upon request.

CONCRETE FIELD CERTIFICATION

Level 2 - Concrete Field Inspector

Who needs certification?

Agency/Owner: All personnel acting as a chief inspector on concrete projects such as paving, curb and gutter, median, sidewalk, etc. (Lead Inspector)¹¹.

Contractor: None

Requirements:

- Level 1 Concrete Field certified.
- Successful completion of the Concrete Field 2 class (3 days).
- A minimum score of seventy (70) percent on the written examination.

NOTE: Unlike the Level 1 Concrete Field class, American Concrete Institute (ACI) certification is not offered for Concrete Field Level 2. For Grade 2 Concrete Technician contact the American Concrete Institute at:
www.aci-int.org

¹¹ It is not required that a local agency provide a Level 2 certified Street or Field inspector for each bridge, grading, bituminous, or concrete project. The Level 2 certified person may handle or be available to several projects at one time in a "chief inspector" capacity for operations relating to their areas of certification.

CONCRETE PLANT CERTIFICATION

Level 1 - Concrete Plant Tester

Who needs certification?

Agency/Owner: All ready-mix/central-mix concrete plant inspectors/Monitors, all MnDOT Independent Assurance Inspectors and anyone who performs QC/QA tests or calibrates testing equipment at a concrete plant facility.

Contractor: All personnel performing quality control testing in concrete ready-mix/central-mix plants. This may include but are not limited to: test equipment calibration, representative sampling, splitting of samples, moistures and gradations.

Requirements:

- Aggregate Production certification.
- Completion of the Concrete Plant 1 class (2 days).
- A minimum score of seventy percent on the written exam.

Level 2 - Concrete Plant 2

Agency/Owner: All plant or paving project personnel performing, adjusting or checking mix-design calculations.¹²

Contractor: Anyone performing concrete mix design calculations, or makes mix design decisions and adjustments, or anyone who supervises quality control (QC) testing in a concrete ready-mix plant.

Requirements:

- Level 1 certified.
- Successful completion of the four-day Concrete Plant 2 class (4 days)
- A minimum seventy percent on Parts 1 and 2 of the exam and successful completion of the mix design portion.

¹² Level 2 - Concrete Mix designer certification, as appropriate, is required if the local agency is performing mix design or mix adjustments. If MnDOT is doing these, the local agency is not required to have a Level 2 certified technician.

CONCRETE STRENGTH TESTING

Level 1 - Concrete Strength Testing Technician

Who needs certification?

Agency/Owner: All personnel who cap and/or break cylinders for acceptance of concrete strength. Any individuals who provide test results of concrete cylinder breaks.

Contractor: All personnel who cap and/or break cylinders for acceptance of concrete strength. Any individuals who provide test results of concrete cylinder breaks.

Requirements:

- Completion of Concrete Strength Testing course (1 day)
- A minimum score of seventy (70) percent on the written exam and successful completion of the related performance evaluation.

Performance evaluation consists of the following tests:

- ASTM C617 Capping Cylindrical Concrete Specimens
- ASTM C 1231 Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
- ASTM C 39 Compressive Strength of Cylindrical Concrete Specimens (Modified)
- (5) AASHTO T 23 Making and Curing Concrete Test Specimens in the Field
- (6) AASHTO M 201 Standard Specification for Moist Cabinets, Moist Rooms, and Water Storage Tanks used in the Testing of Hydraulic Cements and Concretes.
- There is no Concrete Strength Testing Technician Recertification. Anyone whose current MnDOT Concrete Strength Testing Certification expires is required to complete the Concrete Strength Testing Technician course to obtain recertification

In lieu of MnDOT Concrete Strength Testing Technician Certification, MnDOT will accept personnel who hold a current ACI Strength Testing Technician Certification and Wisconsin Concrete Strength certification.

Currently, Concrete Strength Testing certification does not expire. Consequently, there are no recertification classes for Concrete Strength Testing.

GRADING AND BASE CERTIFICATION

Level 1 - Grading and Base Tester

Who needs certification?

Agency/Owner: Personnel performing or overseeing laboratory or field tests on soils/grading & base materials. Test procedures may include but are not limited to representative sampling, splitting samples, gradations, moisture-density (proctor), in-place field density or calibrates testing equipment; MnDOT Independent Assurance Inspectors.

Contractor: Personnel performing field tests on soils/grading & base materials. Test procedures may include but are not limited to representative sampling, splitting samples, gradations, moisture-density (proctor), and in-place field density or calibrates testing equipment.

Requirements:

- Aggregate Production certification.
- Completion of the Grading and Base 1 class (3 days).
- A minimum score of seventy (70) percent on the written examination, and successful completion of the related performance evaluation.

Performance evaluation consists of the following tests:

- Moisture-Density Relations
 - AASHTO T 99 Method C Moisture-Density Relation (Proctor).
 - AASHTO T 265 Moistures & Calculations
 - AASHTO T 217 Modified CCGP¹² Method: 20 gram Speedy Moisture Meter
 - AASHTO T 99 Proctor – Plotting Test Results
- MnDOT G&B manual 5-692-232 Cone & Ring Calibration
- MnDOT G&B manual 5-692-232 Standard Sand Calibration
- AASHTO T 191 In Place Field Density – Sand Cone Method
- MnDOT G&B manual 5-692.255 Dynamic Cone Penetrometer (DCP)
- MnDOT G&B manual 5-692.601 Soils ID (Soils Triangle)

The engineering properties associated with soils have been used for classification and are the basis of the AASHTO system. The AASHTO system uses the engineering properties of elasticity, expansion and load bearing capacity based on actual field use along with exact texture as to basis for classification.

¹² Calcium Carbide gas pressure moisture meter

GRADING AND BASE CERTIFICATION cont.

Level 2 - Grading and Base Inspector

Who needs certification?

Agency/Owner: All personnel acting as chief inspectors on grading and base projects¹³.

Contractor: None

Requirements:

- Level 1 certified.
- Completion of the Grading and Base 2 class (3 days).
- A minimum score of seventy percent on the written examination.

¹³ *It is not required that a local agency provide a Level 2 certified street or field inspector for each bridge, grading, bituminous, or concrete project. The Level 2 certified person may handle or be available to several projects at one time in a "chief inspector" capacity for operations relating to their areas of certification.*

All these requirements are per Specification and the contact information is listed below:

PRESTRESSED CONCRETE CERTIFICATION

Prestressed Concrete Certification is required on all MnDOT and Federal-Aid jobs. See the Special Provisions and Section 2405.3, Standard Specifications for Construction, latest edition (currently-2014).

For further information contact Steve Grover, 651-366-5540.

SIGNAL & LIGHTING CERTIFICATION

For further information contact Ron Bisek, 651-234-7057.

EROSION AND SEDIMENT CONTROL

For information concerning erosion and sediment control certification requirements, contact the Office of Environmental Services at 651- 366-3600.

For information on Erosion Control class registration and availability, contact the University of Minnesota, Bio-products and Bio-systems Engineering Department at (612) 625-9733.

BRIDGE SAFETY INSPECTION

For further information contact:

Ed Lutgen - 651-366-4507

Pete Wilson - 651-366-4574

The MnDOT Office of Bridges and Structures administers the Bridge Safety Certification Program. For information on Bridge safety classes and their related certifications you can contact the MnDOT Bridge Office at 651-366-4576

COURSE DESCRIPTIONS

Aggregate Production (24 hrs.)

This is a three day introductory course taught both in the classroom and in the lab. It covers aspects of aggregate production and quality control testing. Subjects include: prospecting for aggregate, crushing and stockpiling, aggregate blending, process control, and effects of non-complying aggregate on construction. Test topics include aggregate sampling, splitting, gradations, aggregate specific gravity, moisture, spall identification, percent crushing, and other aggregate durability and quality tests. This course includes a hands-on performance review. This is done during the lab.

There is currently no level 2 or recertification course for aggregate production.

Bituminous Street (24 hrs.)

This course is a three day course in bituminous technology. It is taught entirely in the classroom. Topics include: asphalt properties and types, production and testing, plant types and operation, aggregates used in production of hot-mix design concepts, paving and compaction specifications, inspector and contractor roles, the MnDOT QM Spec. and Certified Plant requirements.

Bituminous Plant 1 (24 hrs.)

This course is specifically designed for individuals working in the quality control testing area of a bituminous hot-mix plant. It is a three day course with time spent in the classroom and in the lab. Subjects to be covered are the following test procedures - maximum specific gravity (Rice test), air voids and bulk specific gravity as determined from specimens, Fine Aggregate Angularity, Flat & Elongated, Sand Equivalent, Gyrotory specimens and compacted pavement cores, extraction and gradation of salvaged- asphaltic aggregate (RAP), and the Tensile Strength Ratio (TSR-Lottman) test. This course requires a hands-on performance review to obtain full certification. This must be completed within a year of the exam date.

Bituminous Plant 2 (40 hrs.)

This course is specifically for Bituminous Mix Designers, Plant Superintendents, and both agency and private testing Lab Supervisors. It covers Bituminous Mix Design requirements and working ranges specified by MnDOT specifications. It also covers subjects such as blending aggregates and recycled mixture design. This course prepares the student for doing MnDOT Trial Mix Design submittals. To obtain certification, this course requires you submit all materials and paper work, and receive an approval for, a 2360 mix design. This must be completed within a year of the exam date.

Bridge Construction (112 hrs.)

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, substructures, structural steel, forms and false-work, pre-stressed beams, deck expansion joints, superstructures, 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.

Concrete Field 1 – American Concrete Institute (ACI) (16 hrs.)

This is a two day introductory course in concrete technology for personnel who sample, test and/or inspect concrete in the field. The course details the principles of concrete quality, with an emphasis on field tests including slump, temperature, air entrainment, unit weight, and casting cylinders by incorporating the American Concrete Institute's (ACI) Concrete Field Technician - Grade 1 course. Successful completion of this course grants certification through both ACI and the MnDOT program. The first day is all classroom instruction with a second day to review that material, complete a written *closed-book* examination and hands-on performance review.

Concrete Field 2 (24 hrs.)

This is a three-day advanced course for experienced personnel acting as Chief Inspectors on concrete projects. It is taught entirely in the classroom. Subjects include materials technology and construction techniques required by MnDOT specifications, concrete paving, joint reconstruction, forming, curing, and material properties. This course is a prerequisite for the Bridge Construction course.

Concrete Plant 1 (16 hrs.)

This two-day class is for contractor personnel performing quality control tests in ready-mix/central-mix plants and agency plant inspectors. Instruction covers certified plant requirements, composite gradations, and ready-mix plant operation. The course is taught in the classroom.

Concrete Plant 2 (32 hrs.)

This four-day course is for plant managers and quality control personnel in concrete producing plants who require Level 2 certification to meet the specifications for Certified Ready Mix Plants. The course will relate specific performance requirements to the concrete mix design and production controls to produce the specified mixes. The course covers ACI mix design procedures and specific MnDOT requirements as well as aggregate and admixture technology. MnDOT Plant 2 Certification will be based on satisfactorily passing the course examination and completing a detailed mix design.

Concrete Strength Testing (8 hrs.)

This one day course is required for all persons performing concrete compressive strength testing that involves material acceptance based upon compressive strength. This course has both classroom and laboratory requirements. Concrete Strength Testing Technician Certification is not required for persons breaking concrete beams.

There is currently no level 2 or recertification course for Concrete Strength Testing.

Grading and Base 1 (24 hrs.)

This three-day course is required for anyone performing inspection or testing on grading projects. The course covers soils identification, moisture-density test (proctor), field moisture and density determinations, and Dynamic Cone Penetrometer test procedure. The course includes both classroom lectures and hands-on training in a laboratory.

Grading and Base 2 (24hrs.)

Grading and Base 2 is a required advanced course for personnel acting as lead inspectors on grading projects. This course discusses the inspector's roles and responsibilities, subgrade 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

RECERTIFICATION CLASSES

Recertification classes vary in scope depending on the certification area. Some areas have a single class that recertifies individuals for both levels.

Bituminous Street Recertification –

- In addition to the instructor-led classroom sessions, there is an option to take this course online. For more information go to the Technical Certification website:

<http://www.dot.state.mn.us/const/tcp/>

Concrete Field Recertification – MnDOT only certification

- In addition to the instructor-led classroom sessions, there is an option to take this course online for MnDOT Level 1 Recertification only. For more information go to the Technical Certification website:

<http://www.dot.state.mn.us/const/tcp/>

Grading & Base Recertification –

- In addition to the instructor-led classroom sessions, there is an option to take this course online for MnDOT Level 1 and level 2 Recertification only. For more information go to the Technical Certification website:

<http://www.dot.state.mn.us/const/tcp/>

Bridge Construction Recertification -

The other areas have a recertification class for each level. However, a Level 2 certified individual need only take the Level 2 class to recertify for both levels.

Be aware that failure of a Level 2 Recertification class will result in the expiration of both certification levels unless one successfully completes recertification for the level one certification.

REFERENCE SECTION

Course Instructors –

Aggregate Production

Instructors; P.E., Dan Frentress, Gary Kaelke, Tom Rodgers, P.E., Jack Salmela
C/O Aggregate & Ready Mix of Minnesota
2955 Eagandale Blvd, Ste. 300
Eagan, MN 55121
(888) 733-4649, or (952) 707-1250

Bituminous Plant

Instructors: Dave Clauson, Stephan Rolf, Gary Kaelke and John Savaloja
C/O Lake Superior College
2101 Trinity Road
Duluth, MN 55811
(218) 733-5918

Bituminous Street

Instructors: P.E., Gerald Huber, P.E., Timothy Murphy, P.E., John Garrity,
P.E., Greg Schneider, P.E., Greg Johnson
C/O Lake Superior College
2101 Trinity Road
Duluth, MN 55811
(218) 733-5918

Concrete Field (ACI)

Instructors, Dan Frentress, P.E., Ann Johnson, P.E., Gary Orlich, P.E., Mary Vancura, Gordy Bruhn
C/O Aggregate & Ready Mix of Minnesota
2955 Eagandale Blvd, Ste. 300
Eagan, MN 55121
(888) 733-4649, or (952) 707-1250

Concrete Plant

Instructors: Dr. Ken Hover, P.E, Doug Schwartz, P.E. Wendy Garr and Gordy Bruhn
C/O Aggregate & Ready Mix of Minnesota
2955 Eagandale Blvd, Ste 300
Eagan, MN 55121
(888) 733-4649, or (952) 707-1250

Concrete Strength Testing

Instructor: Jeri Essig
C/O Lake Superior College
2101 Trinity Road
Duluth, MN 55811
(218) 733-5918

Bridge Construction

Instructors: Ken Johnson, P.E., Jeff Michniewicz P.E.
C/O Lake Superior College
2101 Trinity Road
Duluth, MN 55811
(218) 733-5918

Grading and Base

Instructors: P.E., Mike Rief, P.E. Jack Salmela Sandy Roggenkamp, Larry Huseeth, John Savaloja
C/O Lake Superior College
2101 Trinity Road
Duluth, MN 55811
(218) 733-5918

COOPERATING AGENCIES

Lake Superior College (LSC)

Customized Training Center

Attn: Suzanne Johnsrud

2101 Trinity Road

Duluth MN 55811

(218) 733-5934

www.lsc.edu

Aggregate & Ready Mix Association of Minnesota (ARM)

Attn: Fred Corrigan, Executive Director

2955 Eagandale Blvd, Ste. 300

Eagan, MN 55121

(952) 707-1250, or Toll Free (888) 733-4649

www.armofmn.com

MnDOT DISTRICT EXAM PROCTORS

District 1 - Duluth

Leila DeLuca – Materials Specialist (218) 725-2738
Nadine Miller - Independent Assurance Inspector (218) 725-2737

District 2 – Bemidji

Jeff Long - Materials Specialist (218) 755-6544
Thomas Lloyd - Independent Assurance Inspector (218) 755-6545

District 3 – Baxter/St. Cloud

Tom Boser- Materials Specialist (218) 828-5755
Matthew Miles - Independent Assurance Inspector, Baxter 3A (218) 828-5753
Teresa Mertens - Independent Assurance Inspector, St. Cloud 3B (320) 223-6555

District 4 - Detroit Lakes

Brad Hanson - Materials Specialist (218) 846-3616
David Brunner - Independent Assurance Inspector (218) 846-3613

District 6 - Rochester

Ken DeCramer - Materials Specialist (507) 286-7580
Ken Pickett - Independent Assurance Inspector (507) 286-7584

District 7 – Mankato

Mark Schoeb – Materials Specialist (507) 304-6188
Mitch Jordahl - Independent Assurance Inspector (507) 304-6187

District 8 - Willmar

Jay Jorgenson - Materials Specialist (320) 214-6345
Jon Vlaminck - Independent Assurance Inspector (320) 214-6348

MnDOT METRO EXAM PROCTORS

Concrete Office - Materials and Research Lab, Maplewood

Wendy Garr - Concrete Engineering Specialist (651) 366-5423

Bituminous Office - Materials and Research Lab, Maplewood

Debra Evans - Bituminous Mix Design/Recommendation Specialist (651) 366-5574

Grading and Base Office - Materials and Research Lab, Maplewood

John Bormann - Grading & Base Specialist (651) 366-5596

Bituminous Trial Mix - Materials and Research Lab, Maplewood

Ray Betts - Bituminous Trial Mix Laboratory Technician (651) 366-5469

Aggregates - Materials and Research Lab, Maplewood

Dave Baker - Aggregate Laboratory Supervisor (651) 366-5414

Metro Inspection – Water’s Edge Building, Roseville

Mike Sroga - Pavement Management Specialist /IA Supervisor (651) 234-7354

Metro IA Inspectors–

Mike Amiot – Independent Assurance Inspector (651) 234-7356

Greg Bohmert – Independent Assurance Inspector (651) 234-7356

Matt Herbst – Independent Assurance Inspector (651)234-7356

Steve Reinardy – Independent Assurance Inspector (651) 234-7356

MnDOT Office of Materials and Road Research, Maplewood

John Micheau - Technical Certification Program Specialist (651) 366-4201

TECHNICAL CERTIFICATION ADVISORY COMMITTEE

Technical Certification Program policy is coordinated through the Technical Certification Advisory Committee, a cooperating Agency and Industry group composed of representatives active in the field of highway construction. The group consists of a number of private and governmental officials.

Following are members of the Technical Certification Advisory Committee as of October 1, 2017

Name	Organization
Charles Kremer P.E.	MnDOT District 7 Materials Engineer
Dave Clauson	Braun Intertec, Consultant Representative
Edward Lutgen P.E	MnDOT, Bridge unit
Fred Corrigan P.E.	Aggregate and Ready Mix, Industry Representative
Glenn Engstrom	MnDOT State Materials Engineer
Suzanne Johnsrud	Lake Superior College, Academic Partner
Jim Kochsiek	MnDOT Engineer Senior Administrative
Jill Thomas, P.E.	MN Asphalt Pavers Association, Industry Representative
John Garrity, P.E.	MnDOT, Bituminous Engineer
John Micheau	Technical Certification Specialist
Kevin Kliethermes P.E.	Federal Highway Administration
Maria Masten, P.E.	MnDOT, Concrete Engineer
Matt Zeller, P.E.	Concrete Pavers Assoc. MN, Industry Representative
Mike Rief, P.E.	WSB, Consultant Representative
Mike Sroga	Pavement Management Specialist /IA Supervisor
Joel Ulring, P.E.	MnDOT, State Aid Division
Terry Beaudry, P.E.	MnDOT, Grading & Base Engineer
Tim Sinclair	MnDOT, Metro Inspection
Tom Ravn, P.E.	MnDOT, State Construction Engineer
Tim Worke, P.E.	Associated General Contractors, Industry Representative

