

Grading and Base Inspector Recertification Class Agenda 2023-2024

Instructors

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Recertification course description

This recertification course reviews core knowledge and skills from the initial certification course and provides information on any recent changes to the relevant specifications and test procedures. Instruction includes lecture, demonstration, discussion, and practice activities. Participants will also have an opportunity to discuss lessons learned in the field. Quizzes, course resources, and content reviews are included to help participants prepare for the written exam.

Timing, attendance, and breaks

The class day is from 8:00 a.m. to 4:30 p.m. Attendance will be taken in the morning and afternoon. There will be short breaks throughout the day and a 30-45 minute lunch break around 12:00 noon.

Deadlines (see the course webpage for more information):

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

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

Class Agenda

Chapter I - Administrative & Resources

- a. Instructor/Student Self Introductions
- b. Course Outline and Purpose
- c. Administrative Details and Available Resources
- d. Grading and Base Website

Chapter II – 2020 Materials Control Schedule

Chapter III – Grading and Base Report

Break

Chapter IV-- MnDOT Standard Specification Division I - Administrative Specifications

- 1402 Alteration of the Work and Changed Condition
- 1405 Use of Materials Found on the Project
- 1407 Final Cleanup
- 1503 Conformity with Plans and Specifications
- 1506 Supervision by Contractor
- 1510 Authority and Duties of the Inspector
- 1511 Inspection of Work
- 1512 Unacceptable and Unauthorized Work
- 1513 Restrictions on Movement of Heavy Loads and Equipment
- 1601 Source of Supply and Quality
- 1603 Materials: Specifications, Samples, Tests, and Acceptance
- 1608 Unacceptable Materials
- 1716 Contractor's Responsibility for Work
- 1717 Air, Land, and Water Pollution
- 1805 Method and Equipment

Grading and Base Unit Presentation

Lunch

Chapter V - MnDOT Standard Specifications Division II Construction Specifications - Grading

- 1901 Measurement of Quantities
- Summary of Changes in 2018 - 2020 Spec Book
- 2106 Excavation and Embankment
- 2108 Geosynthetic Construction Materials

Chapter VI - MnDOT Standard Specifications Division II Construction Specifications - Base

- 2211 Aggregate Base
- 2118 Aggregate Surfacing
- 2221 Shoulder Base Aggregate
- Sampling and Acceptance
- Random Sampling Quiz

Chapter VII - MnDOT Standard Specifications Division III Materials Specifications

- 3138 Aggregate for Surface and Base Courses
- 3149 Granular Material

Chapter VIII - Test Rolling

- 2111 Specification
- Grading and Base Manual

Chapter IX Requirements for Materials Certification

Break

Chapter X - Pavement Reclamation Processes

General process Description

Hot In-Place Recycling (HIR)

Cold In-Place Recycling (CIR)

Full Depth Reclamation (FDR)

Stabilized Full Depth Reclamation (SFDR)

Stabilizing Additives

Preliminary Work

Executing the Work

Pavement Reclamation Checklists

Chapter XI - Culvert Installations & Special Situations

Introduction

Lightweight Fill

Construction Techniques for Swamps

Culvert Treatments

Final Exam