SIGN MAINTENANCE AND MANAGEMENT: ONLINE TRAINING COURSE

CTS Annual Conference
Wednesday May 20th, 2015
Purpose

This training course was created to provide a concise, cohesive set of sign maintenance and management materials to employees of various cities, counties, and municipalities.
Reason course was developed:

- Maintenance workers are retiring rapidly; knowledge is not being transferred
- In class training can be difficult to attend
- Offers flexibility to complete training when it fits in schedule
Acknowledgements

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[Image: LRRB]

Developed by:  
[Image: SRF Consulting Group, Inc]

With the assistance of:  
[Image: CH2M HILL]
[Image: University of Minnesota]

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Module Summary

1. General Overview
2. MN MUTCD
3. Sign Policy
4. Sign Materials
5. Safety
6. Sign Placement
7. Sign Installation
8. Sign Retroreflectivity
9. Sign Maintenance and Management
10. Addressing and Street Name Signs
Content Development

Sources for course content:

- Work sessions with experienced maintenance staff
- Knowledge of TAP members
- Traffic Sign Maintenance/Management Handbook
Module Summary

Modules are made up of a combination of:

- Videos vignettes
- Narrated slides
- Quizzes
- Check your knowledge questions
- Linked resources
Module 1: General Overview

The following slides provide a general overview of the topics covered in the course.
Module 2: MN MUTCD

• Basic principles that govern the design and use of traffic control devices in Minnesota

• Standalone document that generally conforms to Federal MUTCD, yet supplements some areas
Module 3: Sign Policy

- Policies that drive sign maintenance and management
- Effectiveness of signs
- Review several case studies
Module 4: Sign Materials

• Sign support materials
• Sign panel materials
• Advantages and disadvantages of each material
• Sign fabrication
Module 5: Safety

- MnDOT Road Work Safety Training
- Work In ROW
- Gopher State One Call
- Worker visibility
- Truck visibility
- Short-term closures
Module 6: Sign Placement

- MN MUTCD guidance
- The clear zone
- Warning Signs and Chevrons
- Signs on private property
- Case studies

Image Source: MN MUTCD (Figure 2A-2)
Module 7: Sign Installation

- Sign trucks and equipment
- Clear zone and breakaway requirements
- Installation details
- Installation issues

Image Source: 3D Specialties
Module 8: Sign Retroreflectivity

- What is retroreflectivity?
- Retroreflectivity standards
- Analyze costs of maintenance
- Review several case studies
Module 9: Sign Maintenance and Management

- Repair and Replacement
  - Management Methods
  - Assessment Methods
  - Combination Methods
- Inventory
- Reporting and Record Keeping
- Inspection
- Preventative Maintenance
Module 10: Addressing and Street Name Signs

- Rural addressing signs
- Street name signs
- Mailboxes
Sign Maintenance and Management for Local Agencies (Online)

This online distance-learning course was created to provide a concise, cohesive set of sign maintenance and management materials to employees of cities, counties, and municipalities. The development of this course stemmed from the realization that no consistent sign training is available locally and that many key maintenance staff are retiring without transferring their knowledge to younger staff. In addition, it is often challenging for maintenance staff to attend workshops and training in person, since their schedules change frequently and are often weather-dependent.

This course will help maintenance staff better understand sign materials, placement, installation, and retroreflectivity, as well as general maintenance and management practices. In addition, students will learn how to use and navigate the Minnesota Manual on Uniform Traffic Control Devices (MN MUTCD) and understand new federal requirements related to sign maintenance and management.

The course consists of 10 lessons, each containing a narrated presentation, video clips, and a quiz. Participants can complete the course, which will take about 10 hours, at their own pace.

http://www.mnltap.umn.edu/training/topic/traffic/onlinesign/index.html
Training Demo

Training Demo

Module 5: Safety

Estimated time to complete is 30 Minutes

Resources:

- Overview 5
- Content Presentation 5
- Printer Friendly | Presentation 5

Activities:

- Quiz 5
Module 5: Safety

Purpose
This module will provide information related to roadway and worker safety when performing sign installation, maintenance, repair, and removal tasks. This module will also provide information on tasks to complete prior to doing field work and measures that will help keep workers and roadway users safe. The reason this is important to cover in this course is because safety should be paramount when beginning field work, as is the case with any road work within the public right of way.

Learning Outcomes
Upon completion of this module, you will be able to:
• discuss the need for appropriate traffic control;
• describe the importance of the Gopher State One Call system;
• define the three classes of safety garments;
• identify the differences between mobile, short duration, and short term duration work activities;
• recognize the differences between urban and rural work zones;
• list activities that should be performed prior to heading into the field.

Learning Resources
Required Resources
• This week’s online content presentation
• MnDOT Temporary Traffic Control Zone Layouts Field Manual

Additional Resources (additional reading, support materials, web links)
• MnDOT Road Work Safety Training
• Polk County Permit Info
• MnDOT Permit Info
• Gopher State One Call
• MnDOT Approved Vehicle Safety Lights

Learning Activities
Activities for this module:
• Links to external references
• External educational videos
• Quiz 5

Questions?
If you have questions or concerns about the course, please email me.
Training Demo - Presentation

Module 5: Safety

SAFETY

Module 5
Training Demo - Video
Training Demo - Video
Training Demo - CYU

Check Your Understanding (CYU):

What is the Field Manual definition for mobile duration traffic control?

- One location from 15 minutes to 12 hours
- One location from 15 minutes to 1 hour
- Multiple locations of up to 15 minutes or less
Training Demo - Quiz