SIGN MAINTENANCE AND MANAGEMENT: ONLINE TRAINING COURSE

City Engineers Annual Conference
Wednesday January 28th, 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.
Background

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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With the assistance of:

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• Tim Plath – City of Eagan
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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
Registration

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

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 Vehicles 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.

Last Updated: SRF Consulting Group, Inc.  Date: 2016
Training Demo - Video
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

Submit
Training Demo - Quiz

Preview Mode

Question 1
Select the appropriate Field Manual definition for duration (short term, short duration, mobile) based on the summarized definitions.

Daylight conditions, one location from 15 minutes to 1 hour, minimal traffic control devices

Daylight conditions, one location from 15 minutes to 12 hours, advanced signing and channelizing devices

Continuously moving or in one location for 15 minutes or less, vehicle-mounted traffic control devices

Choose...

Choose...

Choose...

Save my answers

Question 2
Work in MnDOT RCDI does not require any permits. True or False?

Select one:

- True
- False

Save my answers

Question 3
How can a Gopher State One Call ticket be submitted (select all that apply)?

Select one or more:

- a. Phone
- b. Online
- c. Carrier pigeon
- d. Smart Phone App
- e. U.S. Postal Service

Save my answers