Road Safety 365
A Safety Workshop for Local Governments

Participant’s Workbook
# Table of Contents

Introduction .............................................................................................................. 1  
Course Goal ........................................................................................................... 1  
Course Learning Outcomes .................................................................................... 1  
Module 1: Course Introduction .............................................................................. 2  
Module 2: The Need for Road Safety ................................................................. 9  
Module 3: Road Safety- Myth vs. Reality ......................................................... 27  
Module 4: Reading the Road ............................................................................. 39  
Module 5: Making Roads Safer- A Process for Reducing Crashes ............ 51  
Module 6: Group Activity ................................................................................. 93  
Module 7: Planning and Paying for Safety Improvements ..................... 109  
Module 8: Spreading the Word about Safety ............................................... 119  
Module 9: Course Wrap-Up ........................................................................... 127  
Appendix A: Road Safety 365 Resources ....................................................... 131
Introduction
The Road Safety 365: A Safety Workshop for Local Governments is a one-day training session designed to provide local and rural agencies with practical and effective ways to implement safety solutions into their day-to-day activities and project development process.

Course Goal
The goals of this course are to:

- Demonstrate how construction, maintenance, and other activities can impact the safety of roadways.
- Provide practical guidance on improving road safety that is specifically geared to local/rural road project development processes and day-to-day activities.
- Enable local/rural road agency road owners and practitioners to identify and access appropriate infrastructure safety information, and use it effectively.
- Encourage participants to develop a safety mindset.

Course Learning Outcomes
After completing this course, participants will be able to:

- Explain the need for making roads safer.
- Separate safety myths from reality.
- Demonstrate how to “read the road.”
- Describe practical and low-cost countermeasures to improve safety, both on existing roads and during the design stage.
- Identify ways to plan, implement, and fund low-cost safety measures.
- Access existing resources to find the answer and/or data to address a question or problem that comes up on the job.
- Identify effective ways of encouraging communities to make their roads safer.
- Create an action list for implementing at least one safety improvement at their local agency.
THIS PAGE LEFT INTENTIONALLY BLANK.
Module 1: Course Introduction

Road Safety 365: A Safety Workshop for Local Governments

Module 1: Course Introduction

Welcome

Course Instructors
- Name
- Affiliation
- Contact Information
Introductions

- Name
- Agency/organizational affiliation
- Connection to road safety

Important Details

- Restroom location
- Emergency exit
- Lunch arrangements
- Please turn off cell phones
### Course Goals

- Demonstrate how construction, maintenance, and other activities can impact roadway safety.

- Provide practical guidance on improving road safety that is specifically geared to local/rural road project development processes and day-to-day activities.

### Course Goals

- Enable local/rural road agency road owners and practitioners to identify and access appropriate road safety information, and use it effectively.

- Encourage participants to develop a safety mindset.
Course Outcomes

- Explain the need for making roads safer.
- Separate safety myths from reality.
- Demonstrate how to “read the road.”
- Describe practical and low-cost countermeasures to improve safety, both on existing roads and during project development.
- Identify ways to plan, implement, and fund low-cost safety measures.

Course Outcomes

- Access existing resources to address potential safety issues and concerns as they arise.
- Identify effective ways to make your roads safer.
- Create an action list for implementing at least one safety improvement at your local agency.
Course Agenda: Morning

Module 1: Course Introduction
Module 2: The Need for Road Safety
Module 3: Road Safety - Myth vs. Reality
Module 4: Reading the Road - How You Can Help
  Improve Safety in Your Community
Module 5: Making Roads Safer - A Process for Reducing
  Crashes

Course Agenda: Afternoon

Module 6: Group Activity - Identifying Opportunities for
Making Roads Safer
Module 7: Planning and Paying for Safety
  Improvements - How to do More with Less
Module 8: Spreading the Word about Safety
Module 9: Course Wrap Up
Ground Rules

Ground rules help us reach the course goals and objectives.

Parking Lot Issues

- Post important, ongoing issues and concepts.
- Post questions that have been asked but not yet answered.
Module 2: The Need for Road Safety

Learning Outcomes

- Identify safety issues unique to local and rural areas.
- Identify common challenges to improving road safety.
- Explain why road agencies and others should continually strive to improve road safety.
- Describe the role of the Strategic Highway Safety Plan.
The Problem

Rural and Local Road Safety

Roadway Geometry - Top of Grade
What are the Potential Safety Issues?

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What are the Potential Safety Issues?

Issues:


What are the Potential Safety Issues?

Issues:

- 
- 
- 
-
What are the Potential Safety Issues?

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What are the Potential Safety Issues?

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What are the Potential Safety Issues?

Issues:
What are the Potential Safety Issues?

Issues:


What are the Potential Safety Issues?

Issues:

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________
What are the Potential Safety Issues?

Issues:
What are the Potential Safety Issues?

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Challenges to Road Safety

**Limited...**
- Budgets
- Staffing
- Time
- Crash data
- Traffic and road information
- Understanding or awareness of safety issues
- Training

**In addition to...**
- Lack of coordination between agencies
- Competing priorities
- Politics
- Staff turnover
- Empowerment
Ways to Overcome Some Challenges

- Develop safety awareness
- Identify what to look for
- Identify simple, low cost ways to improve road safety
- Incorporate safety into the “Big Picture”

REVIEW

What are some of the safety issues that can occur in rural areas?
REVIEW

Name some common challenges to improving road safety.

__________________________
__________________________
__________________________
__________________________
__________________________
__________________________

2:30

__________________________
__________________________
__________________________
__________________________
__________________________
__________________________

REVIEW

What is the purpose of a Strategic Highway Safety Plan (SHSP)?

__________________________
__________________________
__________________________
__________________________
__________________________
__________________________

2:31
REVIEW

How does the condition of the roadside potentially increase the chances of a crash?
Module 3: Road Safety - Myth vs. Reality

Learning Outcomes

- Identify common safety improvement myths.
- Explain the reality behind each myth.
- Identify ways to counter common road safety myths.
- Identify and locate appropriate safety information, resources, and/or tools.
Myth vs. Reality

1. What myths about road safety have you encountered within your community?

2. How can you overcome these myths to improve road safety within your community?

---

Myth vs. Reality

**Myth:**
Safety costs a lot

**Reality:**
Can do a lot for little to no cost

---
**Myth vs. Reality**

**Myth:**
I can’t do safety because first I have to repave (or replace my signs)

**Reality:**
Safety can be incorporated into all activities

---

**Consider**

- Is blanket replacement of signs the best use of funds or are there high-crash locations without signs that would benefit from sign installation?

- Is safety one of the criteria for determining when roads/streets need to be repaved?

- How will higher travel speeds brought about by resurfacing affect safety for motorists and pedestrians?
**Myth vs. Reality**

**Myth:**
Crashes are the driver’s fault and there’s nothing I can do about it.

**Reality:**
Crashes have multiple causes (driver, roadway and vehicle)

---

**Crash Causes**

- **Driver:** 93%
- **Roadway:** 34%
- **Vehicle:** 12%

- 27% of the crashes are due to driver
- 1% are due to roadway
- 2% are due to vehicle

---
Accommodate Drivers

- Drivers need certain information to make decisions.
- They need time to receive and process that information and arrive at those decisions.
- They sometimes make incorrect decisions.
- The road system should accommodate drivers, not the other way around.

Myth vs. Reality

**Myth:**
Wider is always safer

**Reality:**
Wider roads and intersections could have unintended consequences
Myth vs. Reality

**Myth:**
Crash reports are completed by police officers only for insurance companies.

**Reality:**
Crash reports are used in making roads safer.

---

Example
What are other myths about road safety have you encountered at work?

How have you overcome those myths?

Resources

http://docs.mvpc.org/safety/Low_Cost_Local_Roadway_Safety_Solutions.pdf
Resources

http://www.t2.ushnu.edu/ittapa/Pubs/SAFER_96.pdf

http://safety.fhwa.dot.gov/local_rural/training/ffwasa07018/
http://safety.fhwa.dot.gov/local_rural/training/ffwasa09024/
REVIEW

Identify some of the things that road agencies do that dispel the myth that safety costs a lot.

3-21

REVIEW

Drivers are one factor in road crashes. What are the other two factors?

3-22
REVIEW

Insurance companies are the only people who use police crash reports. True or False

Summary

- Identify common safety improvement myths.
- Explain the reality behind each myth.
- Identify ways to counter common road safety myths.
- Identify and locate appropriate safety information, resources, and/or tools.
Module 4: Reading the Road- How You Can Help Improve Safety in Your Community

Learning Outcomes

- Explain the meaning of developing a “safety attitude.”
- Demonstrate how to “read the road.”
- Give examples of the roadway safety consequences of day-to-day construction and maintenance activities (or inactions in this regard).
Safety Attitude

“Extra Eyes for Safety”

Reading the Road

Look for indications that road users are having difficulty negotiating the roadway section.
What Indication Do You See?

Indications:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What Indication Do You See?

Indications:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What Indication Do You See?

Indications:
What Indication Do You See?

Indications:

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
What Indication Do You See?

Indications:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What Indication Do You See?

Indications:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
What Indication Do You See?

Indications:

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________
What Indication Do You See?

Indications:

1. [List of indications mentioned in the image]

2. [Additional indication listed in the image]

3. [Further indication mentioned in the image]
REVIEW
What does the term “reading the road” mean?

4-13

REVIEW
Briefly describe the PennDot program “Extra Eyes for Safety.”

4-14
Summary

- Explain the meaning of developing a “safety attitude.”

- Demonstrate how to “read the road.”

- Give examples of the roadway safety consequences of day-to-day construction and maintenance activities (or inactions in this regard).
Module 5: Making Roads Safer- A Process for Reducing Crashes

Learning Outcomes

- Describe the crash reduction process.
- Identify the data/information needed to assess the safety of a roadway location.
- Identify practical and low-cost countermeasures.
- Describe best practices for making roads safer.
Steps in Crash Reduction Process

1. Identify the site
2. Determine crash pattern
3. Visit the site
4. Identify contributing factors
5. Assess and select countermeasures
6. Implement countermeasures

Obtain Crash Data

Crash Report Data includes:
- Time/date of crash
- Pavement or surface conditions
- Weather conditions
- Other contributing factors
Collision Diagram Symbols

- Rear-end
- Head-on
- Left/Right Rear-end
- Sideswipe Same Direction
- Sideswipe Opposite Direction
- Angle
- Left-turn Head-on
- Left/Right Turn
- Left/Right Crossing
- Single Vehicle
- Fixed Object

Steps in Crash Reduction Process

1. Identify the site
2. Determine crash pattern
3. Visit the site
4. Identify contributing factors
5. Assess and select countermeasures
6. Implement countermeasures
Visit the site

- Observe traffic under conditions of interest
- Gather basic traffic data (volumes and speeds)

Road Safety Audit/Assessment (RSA)

RSA = formal safety performance examination of an existing or future road by an independent audit team.

“RSAs are a proven way to review just how safe our local roads are and can be a valuable tool for local government road professionals in making their roads safer.”

Tony Giancola
Executive Director, NACE
Prepare a Condition Diagram

Condition Diagram

Steps in Crash Reduction Process

1. Identify the site
2. Determine crash pattern
3. Visit the site
4. Identify contributing factors
5. Assess and select countermeasures
6. Implement countermeasures
Countermeasures to Consider

• Edgelines and delineation
• Rumble strips

http://safety.fhwa.dot.gov/policy/memo071008/

Countermeasures to Consider

• Barrier/guardrail
Countermeasures to Consider

• Safety Edges

Source: FHWA
http://safety.fhwa.dot.gov/policy/memo071008/

Countermeasures to Consider

• Left-turn lanes
Countermeasures to Consider

• Sidewalks
• Walkways

Countermeasures to Consider

Pedestrian Refuges
Countermeasures to Consider

Maintenance Strategies
- Patching Potholes
- Cleaning Drainage Structures
- Blading Ditches
- Trimming Vegetation

Steps in Crash Reduction Process

1. Identify the site
2. Determine crash pattern
3. Visit the site
4. Identify contributing factors
5. Assess and select countermeasures
6. Implement countermeasures
Steps in Crash Reduction Process

1. Identify the site

2. Determine crash pattern

- Obtain data
- Create collision diagram

---

Steps in Crash Reduction Process

3. Visit the site

4. Identify contributing factors

- Gather data
- Create condition diagram
Steps in Crash Reduction Process

5. Assess and select countermeasures
6. Implement countermeasures

Consider and implement countermeasures
Example 1 - Identify Site and Obtain Crash Data

Collision Diagram

3 Years of Crash Data

- 4 Run-off-road
  - 1 overturned
  - 1 vehicle went into creek
  - 2 struck a utility pole
- 1 Sideswipe Opposite
- 1 Head-on
Example 1 - View the Site & Identify Contributing Factors

Southbound View from Upstream of Curve
Example 1 - View the Site & Identify Contributing Factors

Southbound View of Curve

[Image of a road curve with a car parked on the side]
Example 1 - View the Site & Identify Contributing Factors

Northbound View of Curve
Example 1 - View the Site & Identify Contributing Factors
Evidence of Vehicle Running Off Road on Outside of Curve
Example 1 - Create Condition Diagram

**Condition Diagram**

- Posted Speed Limit = 35 mph
- Turf Shoulders of Variable Width
- 6% Superelevation
- Radius = 110'
Example 1 - Discussion

What type of crash patterns do you see?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

What are the contributing factors?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

What would be appropriate countermeasures?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Example 2 - Identify Site & Obtain Crash Data

Collision Diagram

3 Years of Crash Data

- 4 Angle
- 2 Overtaking Left
- 2 Run-off-road
- 1 Rear-end
Example 2 - View the Site & Identify Contributing Factors

Northbound View
Example 2 - View the Site & Identify Contributing Factors

Northbound View
Example 2 - View the Site & Identify Contributing Factors

Eastbound Approach
Example 2 - Create Condition Diagram

<table>
<thead>
<tr>
<th>Condition Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Two-way STOP control</td>
</tr>
<tr>
<td>• Posted Speed Limit = 55 mph on both roads</td>
</tr>
<tr>
<td>• Gravel Shoulders of Variable Width</td>
</tr>
</tbody>
</table>

[Diagram of a road intersection with STOP signs and speed limit signs.]
Example 2- Discussion

What type of crash patterns do you see?

What are the contributing factors?

What would be appropriate countermeasures?
ACTIVITY

Example 3 - Identify Site & Obtain Crash Data

Collision Diagram

3 Years of Crash Data

- 7 Run-off-road
  - 3 overturned
  - 2 struck stone wall
  - 2 struck a tree

- 2 Head-on
ACTIVITY

Example 3 - Visit the Site & Identify Contributing Factors

Two-Lane Segment
ACTIVITY

Example 3 - Visit the Site & Identify Contributing Factors

Roadside Safety Issues
ACTIVITY

Example 3 - Maintenance
**ACTIVITY**

Example 3 - Create Condition Diagram

**Condition Diagram**

- Posted Speed Limit = 45 mph
- Gravel Shoulders of Variable Width
- Steep Sideslopes
- Many Horizontal curves
ACTIVITY- Example 3
Discussion

What type of crash patterns do you see?

What are the contributing factors?

What would be appropriate countermeasures?
ACTIVITY

Example 4 - Identify Site & Obtain Crash Data

Collision Diagram

3 Years of Crash Data

- 7 Angle
- Right-turn Crossing
- 3 Rear-end
ACTIVITY

Example 4 - Visit the Site & Identify Contributing Factors

Southbound Approach
ACTIVITY

Example 4 - Visit the Site & Identify Contributing Factors

Looking Westbound
ACTIVITY

Example 4 - Visit the Site & Identify Contributing Factors

Looking Eastbound
## ACTIVITY

**Example 4 - Create a Condition Diagram**

<table>
<thead>
<tr>
<th>Condition Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>• T-intersection</td>
</tr>
<tr>
<td>• Posted Speed Limit = 55 mph on both roads</td>
</tr>
<tr>
<td>• 4’ Paved shoulders on Thornton Hwy</td>
</tr>
<tr>
<td>• Gravel Shoulders of Variable Width on Prior Rd.</td>
</tr>
</tbody>
</table>

![Condition Diagram Image]
ACTIVITY- Example 4

Discussion

What type of crash patterns do you see?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

What are the contributing factors?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

What would be appropriate countermeasures?

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Resources


Review - Crash Reduction Process
REVIEW

Two tools used in identifying contributing factors in crashes are:

[Blank]

[Blank]

REVIEW

Information that can be obtained from a site visit includes:

[Blank]

[Blank]
REVIEW

List 3-4 low-cost countermeasures that PIWIA promotes:

Summary of Learning Outcomes

- Describe the crash reduction process.
- Identify the data/information needed to assess the safety of a roadway location.
- Identify practical and low-cost countermeasures.
- Describe best practices for making roads safer.
Module 6: Group Activity

Wright County Safety Review

Identifying Opportunities for Making Roads Safer

Purpose

- Analyze selected sites
- Identify potential safety issues at each site
- Review collision diagrams of crash types
- Suggest appropriate, low-cost countermeasures:
  - General recommendations (maintenance issues, pavement marking issues, etc.)
  - Specific recommendations for each site/issue
Wright County

- County is primarily rural and agricultural, with some recreational traffic associated with hunting and fishing.
- Commuter traffic peaks are experienced only around the Village of Alvarez, the regional center.

Wright County

Rural road network includes county roads and some highways recently transferred from state jurisdiction.

During the winter, the county experiences snowy/icy conditions that may persist for up to about four months.
Wright County

Review sites grouped by area, designated by the nearest town or area:

- Alvarez (regional center)
- Hensley
- Lincoln
- Spurling
- Wright County Park
### ACTIVITY 1- Alvarez: Meadows Road

**Details**

- Meadows Road: rural major collector (ADT 2,500) with some intersecting local roads
- two-lane rural road
- speed limit 55 mph
- limited shoulder (paved, gravel, and grass)
- slope and creek run parallel to Meadows Road
- some cyclists present on the road during site visits

**Crash Diagram**

![Crash Diagram](image)
ACTIVITY 1- Alvarez: Meadows Road

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
ACTIVITY 2- Alvarez: Carpenter St and Washburn St

Details

- two-way intersection of two 2-lane rural roads (no turning lanes)
- speed limits: 55 mph (Washburn St) and 50 mph (Carpenter St)
- Carpenter St: rural arterial (ADT 3,400)
- Washburn St: rural collector (ADT 1,900)
- major movements: through movements on Carpenter Street
- some bicyclists present on the road during site visits

Crash Diagram
ACTIVITY 2- Alvarez: Carpenter St and Washburn St

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
### ACTIVITY 3- Hensley: County Road

#### Details

- two-lane rural road
- unpaved shoulders
- speed limit: 45 mph
- estimated ADT: 2,500 vehicles

#### Crash Diagram

![Crash Diagram](Diagram.jpg)
ACTIVITY 3- Hensley: County Road

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
ACTIVITY 4- Spurling: Regional Road B at Buck Creek

<table>
<thead>
<tr>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>• two-lane rural highway</td>
</tr>
<tr>
<td>• estimated AADT 2,500 vehicles</td>
</tr>
<tr>
<td>• mostly automobiles (few trucks)</td>
</tr>
<tr>
<td>• speed limit 55 mph</td>
</tr>
<tr>
<td>• 10 feet travel lanes with narrow or no shoulders</td>
</tr>
<tr>
<td>• no lighting</td>
</tr>
</tbody>
</table>

Crash Diagram

![Crash Diagram](image-url)
ACTIVITY 4 - Spurling: Regional Road B at Buck Creek

Issues:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
ACTIVITY 5- Wright County Park: Red Cedar Road I

Details

• Two-lane rural road
• Level road with multiple horizontal curves
• Speed limit 55 mph
• Gravel shoulder of limited width
• Estimated ADT: 2,000 vehicles
ACTIVITY 5- Wright County Park: Red Cedar Road I

Issues:

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________
ACTIVITY 6- Wright County Park: Red Cedar Road II

Details

- Two-lane rural road
- Speed limit 55 mph
- Gravel shoulder of limited width
- Estimated ADT: 2,500 vehicles

Crash Diagram
ACTIVITY 6- Wright County Park: Red Cedar Road II

Issues:

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________
Module 7: Planning and Paying for Safety Improvements- How to do More with Less

Learning Outcomes

- Describe ways to implement practical safety solutions during both maintenance and project development.

- Identify potential sources of funding.
Integrate Safety into Projects

- Project Development
- New Developments
- Capital Projects
- Ongoing Routine Maintenance Activities

Project Development Stage

Engage safety experts in project development to identify low-cost safety improvements
Incorporating Safety into New Developments

Consider:
- Access management
- Traffic control improvement
- Additional turn lanes
- Right-in/Right-out
Incorporating Safety into Capital Projects

Install/upgrade traffic control devices:
• Rumble strips
• Delineation
• Pavement markings
• Signs
• Signals

Incorporating Safety into Capital Projects

• Identify targeted safety improvements for capital projects
• Not feasible to implement system-wide upgrade program
• Road safety audits (RSA) can identify safety issues and low-cost countermeasures
Incorporating Safety into Capital Projects

Remove, relocate, or shield roadside hazards, including:
- Outdated barriers/guardrails
- Outdated culvert treatments
- Abrupt pavement drop-offs
- Trees and utility poles
- Non-breakaway supports

Incorporating Safety into Capital Projects

Improve access management:
- Access consolidation
- Access reconfiguration
- Lighting
- ADA Requirements
Incorporating Safety into Capital Projects

Make selective geometric improvements such as:
- cross-section improvements
- sight distance or sight line improvements

Integrate Safety into Maintenance

- Maintenance may be the only regular road improvement activity
- “Piggybacking” safety improvements on a maintenance project may represent only a small additional cost
Incorporating Safety into Ongoing Maintenance

Upgrade traffic control devices on a maintenance basis:

- signs
- signals
- pavement markings

Incorporating Safety into Ongoing Maintenance

Upgrade traffic control devices during maintenance:

- signs
- signals
- pavement markings
Incorporating Safety into Ongoing Maintenance

- Drainage
- Vegetation control
- Pavement surface condition

http://safety.fhwa.dot.gov/local_rural/training/fhwasa07018/
http://safety.fhwa.dot.gov/local_rural/training/fhwasa09024/
Funding Sources

- Highway Safety Improvement Program (HSIP)
- High Risk Rural Roads
- STP Funds
- CMAQ
- Transportation Enhancement Fund
- Safe Routes to School
- State Funds
- Local Funds

Visit: safety.fhwa.dot.gov/hsip/

Local HSIP and HRRR Contact

Name
Affiliation
Contact Information
Summary

- Describe ways to implement practical safety solutions during both maintenance and project development.

- Identify sources of funding.
Module 8: Spreading the Word about Safety

Learning Outcomes

- Identify ways to inform decision makers and field staff about practical ways to improve safety on local and rural roads.

- Give examples of how others have disseminated/publicized the need for safety in their communities.

- Identify and locate appropriate safety information, resources, and/or tools.
Scenario 1: Routine Maintenance
Adopting a Proactive Attitude
What kind of attitude was John exhibiting when he noticed the vegetation problem at several intersections?

What was his supervisor’s initial reaction to John’s concerns about safety?

How much will John’s short term and long term plans cost?

What evidence did John use to back up his concern?

What might have happened if John had said or done nothing about the overgrown vegetation?
Can you think of a similar situation in your area? What types of short term plans would you propose to your boss?
Scenario 2: The Big Box

Thinking of the Customer
What did Tom use to back up his assertion that the sign placement created a potential hazard?

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

How did he manage to avoid conflict with the project developer?

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

What other options might Tom have suggested?

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

Can you think of a similar situation in your area? What types of alternatives would you propose to a project developer?

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________
Activity

- Topic Name
- Why it’s important to discuss
- What can be done about it

Resources
Summary - Learning Outcomes

- Identify ways to inform decision makers and field staff about practical ways to improve safety on local and rural roads.
- Give examples of how others have disseminated/publicized the need for safety in their communities.
- Identify and locate appropriate safety information, resources, and/or tools.
Module 9: Course Wrap-Up

Course Goals

- Demonstrate how construction, maintenance, and other activities can impact roadway safety.

- Provide practical guidance on improving road safety that is specifically geared to local/rural road project development processes and day-to-day activities.
Course Goals

- Demonstrate how construction, maintenance, and other activities can impact roadway safety.

- Provide practical guidance on improving road safety that is specifically geared to local/rural road project development processes and day-to-day activities.

Course Outcomes

- Explain the need for making roads safer.

- Separate safety myths from reality.

- Demonstrate how to “read the road.”

- Describe practical and low-cost countermeasures to improve safety, both on existing roads and during project development.

- Identify ways to plan, implement, and fund low-cost safety measures.
Course Outcomes

• Access existing resources to address potential safety issues and concerns as they arise.

• Identify effective ways to make your roads safer.

• Create an action list for implementing at least one safety improvement at your local agency.
THIS PAGE LEFT INTENTIONALLY BLANK.
Appendix A: Road Safety 365 Resources

Module 2

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic Highway Safety Program (SHSP)</td>
<td><a href="http://safety.fhwa.dot.gov/safetealu/shspquick.cfm">http://safety.fhwa.dot.gov/safetealu/shspquick.cfm</a></td>
</tr>
</tbody>
</table>
| NHI, Low-Cost Safety Improvements Workshop | Instructor lead: FHWA-NHI-380076  
Web Based: FHWA-NHI0380083 |

Module 3

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATSSA, NACE, Low Cost Local Road Safety Solutions</td>
<td><a href="http://docs.mvrpc.org/safety/Low_Cost_Local_Roadway_Safety_Solutions.pdf">http://docs.mvrpc.org/safety/Low_Cost_Local_Roadway_Safety_Solutions.pdf</a></td>
</tr>
<tr>
<td>TIC, SAFER Manual</td>
<td><a href="http://www.t2.unh.edu/nltapa/Pubs/SAFER_96.pdf">http://www.t2.unh.edu/nltapa/Pubs/SAFER_96.pdf</a></td>
</tr>
<tr>
<td>FHWA, Maintenance of Drainage Features for Safety</td>
<td><a href="http://safety.fhwa.dot.gov/local_rural/training/fhwasa09024/">http://safety.fhwa.dot.gov/local_rural/training/fhwasa09024/</a></td>
</tr>
</tbody>
</table>
Module 5

<table>
<thead>
<tr>
<th>FHWA, 9 Proven Countermeasures</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FHWA, Road Safety Audit Guidelines</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FHWA, Tribal Road Safety Audits</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FHWA, Road Safety Audits (RSA)</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://safety.fhwa.dot.gov/rsa/">safety.fhwa.dot.gov/rsa/</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NCHRP 500 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.trb.org/Publications/Public/PubsNCHRPProjectReportsAll.aspx">http://www.trb.org/Publications/Public/PubsNCHRPProjectReportsAll.aspx</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crash Modification Factors Clearinghouse</th>
</tr>
</thead>
</table>

Module 7

<table>
<thead>
<tr>
<th>FHWA, Vegetation Control for Safety</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>FHWA, Maintenance of Drainage Features for Safety</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Highway Safety Improvement Program (HSIP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://safety.fhwa.dot.gov/hsip/">safety.fhwa.dot.gov/hsip/</a></td>
</tr>
</tbody>
</table>
**Additional Resources**

<table>
<thead>
<tr>
<th>Resource</th>
<th>URL</th>
</tr>
</thead>
</table>