Work Zone Training

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FHWA
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Topics

- Why Training
- Subpart J Requirements
- Considerations
- Training Resources
- Implementation
Why Training

• Develop a knowledgeable workforce

• Help personnel:
  ◦ Do their job safely and effectively
  ◦ Design, implement, maintain work zones that provide for the safe and efficient movement of traffic
  ◦ Design and implement work zones that enable work to be completed at acceptable quality
  ◦ Ensure that work zones are implemented appropriately in the field
  ◦ Safely enforce laws and respond to emergencies in work zones
Subpart J Requirements

- Section 630.1008(d) of the Rule addresses training
- Addresses:
  - Who must be trained
  - What training needs to cover
  - How often
- Agencies had many good training efforts underway prior to the Rule
  - Flexibility to continue and enhance those practices as needed
Subpart J Requirements - Who

- Personnel involved in the
  - Development,
  - Design,
  - Implementation,
  - Operation,
  - Inspection, and
  - Enforcement

of work zone related transportation management and traffic control
Subpart J Requirements - Who

- Transportation planners
- Design engineers
- Flaggers
- TTC/TMP designers
- Regional construction managers
- Construction staff

- Maintenance staff
- Inspectors
- Contractor and utility staff
- Law enforcement
- Incident responders
- Consultants

Possibly - Policy makers, senior managers, information officers, program leads
Subpart J Requirements - What

- Appropriate training = training relevant to job decisions that each individual makes
- Deliver training that is:
  - Targeted
  - Meaningful
  - Useful
  - Effective
- Varies by position
Example: Personnel installing traffic control devices, lane closures, etc

- Need to be trained
  - Major role in how safe a work zone is for motorists and workers

- They need to know things like:
  - How to work safely in traffic
  - Requirements for hi-visibility apparel
  - How to read TTC plans
  - What order to put devices in and take them out
  - How devices should be installed and maintained
  - When devices should not be used due to their poor condition/quality
  - Ramifications for putting TTC in incorrectly
Example: TMP Designers

- Need to be trained
  - Have major role in providing for safe and effective traffic flow in work zones

- They need to be trained on things like:
  - What a TMP is and why it is needed
  - How to identify and assess work zone impacts
  - What a significant project is and how the Agency defines it
  - Components of a TMP and how to select TMP strategies
  - Constructability issues
  - Work zone traffic control
  - Who reviews and approves TMPs and TMP changes
  - What Agency policies apply
Example: Responsible Persons

- Need to be trained
  - State/Agency and Contractor
  - Responsible for TMP and other safety and mobility aspects of project

- They need to be trained on things like:
  - What a TMP is and why it is needed
  - Components of a TMP
  - Why things are designed the way they are (TMP, TCP)
  - Work zone traffic control
  - Access/egress
  - Use of law enforcement
  - TMP monitoring and assessment
  - What to do if a TMP is not working
  - Who reviews and approves TMP changes
Subpart J Requirements

- How often
  - Initial - by October 12, 2007, at a minimum, have a training plan
  - Periodic training updates – to reflect
    - Changing industry practices
    - Changes to agency processes and procedures

- Certification
  - Not required at national level
  - May be required by States and Localities
Subpart J Requirements

- **Who can provide training**
  - States
  - Localities
  - LTAPs
  - FHWA and NHI
  - Associations (ATSSA, ITE, ARTBA)
  - Contractors or Contractor Associations
  - Other

- **State-dependent – check with your State**
Considerations

- Target audiences for the training
  - Within the State/agency
  - Outside the State/Agency

- For each audience:
  - Training needs and core competencies
  - Programs and courses that meet the needs
  - Best formats – classroom, online, etc.
  - Typical refresher course requirements
Considerations (cont.)

- Where to specify training requirements
  - Agency policies, manuals, etc
  - Contract specifications, pre-qualification, etc.

- Training delivery
  - Record-keeping of training and updates
  - Funding sources for training
  - Contractor, consultant, and other private sector involvement in delivery

- Acceptability of training from other States
Training Resources

- FHWA Training Compendium
- Work Zone Safety Grants
- Work Zone Safety Information Clearinghouse
- National Highway Institute (NHI)
- Associations and Contractor Organizations
- “Turning Point” campaign for new drivers
- National Transportation Training Resource
- Transportation Curriculum Coordination Council
- LTAPs

Visit FHWA Work Zone Training Page for links
http://www.ops.fhwa.dot.gov/wz/outreach/outreach.htm
FHWA Training Compendium

http://www.ops.fhwa.dot.gov/wz/outreach/wz_training/index.htm
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<tr>
<th>Title</th>
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<th>Provider</th>
<th>Cost</th>
<th>Target Audience</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Zones</td>
<td>Training to provide updates on standards and introductions to new technologies. Each day aimed at different audience, first day for construction inspection, second day for maintenance workers. Training workshop is given at each of the 6 facilities within the state.</td>
<td>Classroom</td>
<td>2 days</td>
<td>Kansas DOT</td>
<td>Free</td>
<td>Anyone working in or around work zones</td>
<td>David Church, 785-230-7531</td>
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<tr>
<td>Construction Inspection, Workmanship, and Quality</td>
<td>Provides an understanding of the factors that contribute to high-quality products. Using worksheets and real-life examples that are relevant to participants, the course covers legal, liability, and risk issues, as well as quality assurance topics related to construction projects. Emphasizing the importance of regulations, the course discusses the importance of fostering partnerships, cooperation, and teamwork among stakeholders, as well as the importance of quality decisions.</td>
<td>Classroom</td>
<td>2 days</td>
<td>NHI</td>
<td>$429</td>
<td>Field personnel involved in all aspects of highway construction from engineers to technicians</td>
<td><a href="mailto:nhitraining@dot.gov">nhitraining@dot.gov</a></td>
</tr>
<tr>
<td>Construction Zone Safety Inspection (1-5 Day)</td>
<td>Participants receive instruction in traffic control plan review, inspection of traffic control procedures, operation, and devices, resolution of discrepancies from the traffic control plan and contract requirements, including differences in safety plan maintenance and maintenance of work zone signage and markings.</td>
<td>Classroom</td>
<td>15 days</td>
<td>NHI</td>
<td>$259</td>
<td>FHWA safety engineers and highway engineers, and State and local personnel involved in the management of traffic control plans and the inspection of construction zone safety devices.</td>
<td><a href="mailto:nhitraining@dot.gov">nhitraining@dot.gov</a></td>
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<td>Classroom</td>
<td>1 day</td>
<td>NHI</td>
<td>$189</td>
<td>FHWA safety engineers and highway engineers, and State and local personnel involved in the management of traffic control plans and the inspection of construction zone safety devices.</td>
<td><a href="mailto:nhitraining@dot.gov">nhitraining@dot.gov</a></td>
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<td>Conducting Traffic Sign Retroreflectivity Inspection</td>
<td>Provides training for field inspectors to perform sign retroreflectivity inspection using the approved methods by the 2009 MUTCD. The course includes hands-on use of a retroreflectometer.</td>
<td>Classroom</td>
<td>4.5 hours</td>
<td>Rutgers, The State University of New Jersey</td>
<td>$15 Private Industry/State Government</td>
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**GUIDE DOCUMENTS (Listed by Title)**

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<tr>
<td>Work Zone Safety Inspection Training Course</td>
<td>The Work Zone Safety Inspection Training Course is a comprehensive manual covering technical aspects of a good Work Zone Inspector</td>
<td>Manual</td>
<td></td>
<td>IPIA</td>
<td>$60</td>
<td>Those responsible for insuring work zones</td>
<td><a href="http://www.pavementinspection.org/Links/WorkZone/WorkZoneSafetyInspectionTrainingCourse/WorkZoneSafetyInspectionTrainingCourse.pdf">http://www.pavementinspection.org/Links/WorkZone/WorkZoneSafetyInspectionTrainingCourse/WorkZoneSafetyInspectionTrainingCourse.pdf</a></td>
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Implementation

- States have developed and enhanced their WZ training programs
- Has the Agency updated/changed training for staff to address broader consideration of WZ impacts and management in scheduling, design, and implementation of projects?
  - 34 agencies (65 percent) responded that the Rule has caused a change in their WZ training
  - Of those, 15 agencies (29 percent) said they had made significant changes to their training

![Supplemental Question #5](image)
Implementation

- Three States to present some of their approach:
  - New Hampshire
  - Louisiana
  - Virginia