

Work Zone Safety Training Resources

As of August 27, 2013

Name	Resource Type	Duration	Audience	Difficulty Level	Description	Cost	Contact
Mobile and Short Duration Work Zone Operations	Presentation materials (PPT)	15 minutes	Operators and technicians working on short-term work zones, particularly those responsible for traffic.	Basic?	This work zone safety module provides an overview of mobile and short duration traffic control, including relevant excerpts from the MUTCD.	No cost	NLTAPA Resource Database, http://www.ltap.org/ George Huntington, WY T ² /LTAP (307)766-6783
Urban Work Zones and Utility Work Part 1	Presentation materials (PPT)	10 minutes	Operators and technicians operating in and responsible for work zones.	Basic?	Part 1 of a two-part module addressing simple urban and utility work zones. Develop an understanding of basic aspects of urban, low volume work zones.	No cost	NLTAPA Resource Database, http://www.ltap.org/ George Huntington, WY T ² /LTAP (307)766-6783
Urban Work Zones and Utility Work Part 2	Presentation materials (PPT)	30 minutes	Operators and technicians operating in and responsible for urban and utility work zones.	Basic?	Second part of a module along with an in-class exercise. Provide a better understanding of urban, low volume work sites, and develop this understanding with an in-class exercise.	No cost	NLTAPA Resource Database, http://www.ltap.org/ George Huntington, WY T ² /LTAP (307)766-6783
Work Zone Traffic Control for Local Roads	Handout/booklet	N/A	Highway and public works officials, foremen, supervisors, crews.	Basic	Provides the fundamental concepts of work zone traffic control and proper flagging techniques in NEW YORK STATE. Written as a participant manual for the "Work Zone Traffic Control" workshop. [2008 date also does not reflect latest changes to latest MUTCD]	No cost	NLTAPA Resource Database, http://www.ltap.org/ Lori Budd, NY LTAP (607) 255-8033 http://www.clrp.cornell.edu/Library/Publications.htm
Work Zone Safety Pocket Guide	Handout/booklet	N/A	Highway and public works officials, foremen, supervisors and crew.	Basic	Presents guidelines for work zone traffic control in NEW YORK STATE. [2008 date also does not reflect latest changes to latest MUTCD]	No cost	NLTAPA Resource Database, http://www.ltap.org/

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							Lori Budd, NY LTAP (607) 255-8033 http://www.clrp.cornell.edu/Library/Publications.htm
Taking Proper Care of Pedestrians in Work Zones	Presentation materials (PPT), recorded webinar	16 minutes	Work zone designers, highway and public works officials, field supervisors, and crews.	Basic	The MUTCD requires that work zone traffic control meet the needs of all road users on a facility, including pedestrians. During this webinar, which was held September 30, 2009, presenters discussed how to meet the work zone traffic control needs of pedestrians, including those with disabilities.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Guidance on Managing Speeds in Work Zones	Recorded webinar	52 minutes	Work zone designers.	Intermediate	The determination of work zone speed limits is typically based on state laws, agency policies and engineering judgment. Many factors impact the decision to reduce the regulatory speed limit in a work zone, implement speed limit management strategies and utilize speed reduction strategies. The information presented in this webinar should aid agencies and highway contractors in understanding these factors and the interaction among them.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
A Tutorial on Establishing Effective Work Zone Performance Measures	Recorded webinar	14 minutes	Work zone designers, highway and public works officials.	Intermediate	This webinar (10/27/2011) introduced the participant to the reasons that work zone performance measures should be established, describes a general process that agencies can follow to establish work zone performance measures that are useful to them, and provide several examples of how agencies can start computing work zone performance measures from the data they may have available or can easily collect	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Anatomy of a Work Zone, Safety and Liability Exposure in Improperly Prepared Work Zones	Recorded webinar	54 minutes	Work zone designers, highway and public works officials, field supervisors, and crews.	Basic	This webinar (3/24/2009) presented a case study of an actual crash and resulting law suit involving a temporary utility work zone on a low volume/low speed road. What was done and what should have been done according to the current MUTCD were examined. Lessons learned from the resulting liabilities and the other outcomes in the case were also discussed.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org

Work Zone Safety Training Resources

As of August 27, 2013

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Work Zone Analysis Tools - State Specific Tools Demonstration	Recorded webinar	90 minutes	Work zone designers, highway and public works officials, field supervisors, and crews.	Intermediate	This webinar was held on November 18, 2010, and was sponsored by FHWA, in partnership with Missouri, Wisconsin and Ohio DOTs. The three states demonstrated their work zone analysis tools and answered attendee questions.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Basic Temporary Traffic Control (BTTC)	Self guided course	2 hours	Those who work in or near traffic control work areas.	Basic	Introductory course on the design and layout of TTC devices and work zone typical applications. This is a self-guided course that can be downloaded and used by companies/agencies to train their staff. Maryland State Highway Administration.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org Maryland SHA, http://www.sha.maryland.gov/In dex.aspx?PageId=404
Advanced Work Zone Training	Document	N/A	Work zone designers, highway and public works officials, field supervisors, and crews.	Intermediate	MoDOT focuses its work zone resources to emphasize roadway visibility in temporary traffic control work zones and traffic flow through those work zones. MoDOT has created this course, “Advance Work Zone Training,” the third part of a curriculum pertaining to work zones. Upon completion of the course, the participants will be certified as a “Work Zone Specialist” (WZS). MoDOT involves a WZS in every aspect of the traffic control plan from preliminary to post-construction work. The WZS is responsible for knowing applicable standards, guidelines, interpreting plans, specifications, coordinating temporary traffic control requirements, meeting the requirements of the contract or field operation guidelines and supervising traffic control personnel.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
High-Visibility Safety Apparel in Work Zones Training Module	On-line training module	30-45 minutes	Contractors, field personnel, state DOT construction engineers and inspectors.	Basic	Provides guidance on selecting high-visibility safety apparel including appropriate situations where each type of apparel is required or recommended. Modules Covered: What are the three classes of apparel? What factors should be considered when selecting apparel? What factors affect the wear and tear on apparel? When it should be replaced? (ATSSA)	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org

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As of August 27, 2013

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Shadow Vehicles for Work Zones Training Module	On-line training module	30-45 minutes	Traffic control supervisors and other contractor field staff are the primary audience for this training module. It is also intended for use by highway agency staff to develop procedures and standards for shadow vehicle use.	Basic	Provides criteria for the use of shadow vehicles and Truck Mounted Attenuators (TMAs) in work zones. Module materials are based on the "Field Guide for the Use and Placement of Shadow Vehicles in Work Zones" and material from the MUTCD and AASHTO Roadside Design Guide. The course explores the different types of protective vehicles, shows the proper use of shadow vehicles, defines a TMA, and identifies when to use a shadow vehicle or TMA. Modules Covered: Types of protective vehicles; Protective vehicle selection guidelines; Proper placement of shadow vehicles; Roll-Ahead-Distance and spacing requirements; Typical applications with diagrams; Module quiz at end of session. (ATSSA)	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Work Zone Training Videos	Various – DVDs, YouTube links, web links	Various	Varies	Varies	The National Work Zone Safety Information Clearinghouse, under Training/Training Videos, hosts links to training videos from numerous sources, including ARTBA, ATSSA, state DOTs, FHWA, and others.	Varies	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Work Zone Streaming Videos	Streaming videos	Various	Varies	Varies	The National Work Zone Safety Information Clearinghouse, under Training/Streaming Videos, is a source for recorded Clearinghouse webinars, Clearinghouse conference sessions, and public service announcements. Contact Matt Carter (DE T ² Center) for written reviews of many of these – matheu@udel.edu .	Generally, no cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Work Zones – Safety First	DVD	2 hours?	Transportation officials involved with work zones.	Basic	Focuses on setting up, maintaining and dismantling work zone areas; procedures for employing daytime vs. nighttime operations; “new” retroreflectivity regulations that will impact work zone signage. Increase the safety of your crews and the public, day and night. Web broadcast (2008) featured our own John Habermann and FHWA’s Cathy Satterfield.	\$59 (members)	American Public Works Association, http://www2.apwa.net/
Work Zone Best Practices Guidebook	PDF	N/A	Work zone designers.	Intermediate	Provides an easily accessible compilation of work zone operations best practices used by various States and localities around the country. The Guidebook is a reference document that can be updated with new approaches, technologies, and practices for effectively managing work zones and	No cost	Federal Highway Administration, http://www.ops.fhwa.dot.gov/wz/index.asp

Work Zone Safety Training Resources

As of August 27, 2013

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					reducing the impacts of work zones on mobility and safety as they are identified. The best practices are descriptive not prescriptive. That is, they describe approaches that have been successfully used by transportation agencies, along with contact information to find out more from the agency using the practice		
Utility Work Zone Traffic Control	Presentation materials (PPT)	4 hours?	Utility workers and managers.	Basic?	Utility work zones are fundamentally different from most highway construction work zones; often of a shorter duration and involving smaller crew sizes, which makes a traffic control plan such as that utilized in highway construction sometimes impractical. As utility service providers often need to work on or near roadways, utility work zones pose unique challenges to health and safety of both motorists and workers. This collection of materials includes Guidelines, Presentations, Instructor's Guide, Case Studies, and Temporary Traffic Control Plan (TTCP) Software.	No cost.	Federal Highway Administration, http://www.ops.fhwa.dot.gov/wz/outreach/outreach.htm National Work Zone Safety Information Clearinghouse, http://www.workzonesafety.org/wsuttcp/overview
Work Zone Training and Guides	Compendium (spreadsheet)	N/A	Transportation officials involved with work zones.	Various	FHWA has developed a spreadsheet of available work zone training and guides. The spreadsheet is organized by the following categories: Design for Work Zones; Inspection of Work Zones; Intelligent Transportation Systems (ITS); Law Enforcement; Management of Work Zones; Nighttime Work; Zone Operations; Short Duration Work Zones; Traffic Control in Work Zones; Worker Safety; Work Zone Guides and Documents	No cost	Federal Highway Administration, http://www.ops.fhwa.dot.gov/wz/outreach/wz_training/index.htm
Work Zone Law Enforcement Training Course	Presentation materials	?	Law enforcement personnel	Basic	FHWA-developed course that covers the role of law enforcement officers in work zones; proper practices and procedures related to the use of law enforcement officers in work zones; the component parts of a typical work zone; and standards and guidelines related to temporary traffic control in work zones. Includes an Instructors Manual, a Participants Guide, a Pocket Guide, and PowerPoint Training Modules. The FHWA training course, and a Louisiana law enforcement training program, are briefly described in an FHWA fact sheet.	No cost [Note – the materials are not currently linked from the FHWA site but efforts are underway to restore them (Aug 2012)]	Federal Highway Administration, http://www.ops.fhwa.dot.gov/wz/outreach/outreach.htm

Work Zone Safety Training Resources

As of August 27, 2013

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Training Materials for Night Road Work to Improve Safety and Operations	Presentation materials	?	Work zone designers and managers.	Basic	This set of four CD-ROMs contains the NCHRP training program for night road work. The training program objectives are to review basic temporary traffic control (TTC) concepts and principles, to review the TTC development process, to introduce a procedure for assessing use of night work, and to develop skills for designing and managing nighttime TTC. The instructor for this training program must be familiar with NCHRP Reports 475 and 476, which form the basis of this training.	\$20	Transportation Research Board, http://books.trb bookstore.org/crpd50.aspx
Work Zone Safety Grant Product Update	Compendium	N/A	Transportation officials involved with work zones.	Various	Section 1409 of SAFETEA-LU established the FHWA Work Zone Safety Grant Program. This 4-year (2006-2009), \$20 million program provided funds to nonprofit and not-for-profit organizations to provide training to prevent and reduce work zone injuries and fatalities. The three grant emphasis areas include: (Area 1) Training for construction workers; (Area 2) Development of guidelines to help improve work zone safety; and (Area 3) Training for State and local governments, transportation agencies, and other groups implementing the guidelines.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
ROADWAY SAFETY+: A Road Construction Industry Consortium Program	Downloadable training	8 hours?	Supervisory personnel with some safety and health experience or by safety and health personnel to orient new workers as they arrive on the jobsite.	Basic	The Roadway Safety Awareness Program provides an overview of common hazards in highway and road construction and simple prevention measures. This program is not intended as a compliance guide. It is intended to help your company produce the worker awareness needed to achieve best practices. It is not a substitute for an OSHA 10-hour course or more in-depth training. It is a labor-management safety reminder.	No cost	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Avoiding Runovers and Backovers Training DVD	DVD	4 hours?	Managers, operators and workers.	Basic	Presents information to help avoid struck-by fatalities and injuries. This program provides "common sense" tips and information about safe work procedures to reduce and eliminate the hazards which lead to death and injury for roadway construction workers. [ARTBA]	\$200 Members \$250 Non-members	National Work Zone Safety Information Clearinghouse, www.workzonesafety.org
Work Zone Safety	Presentation materials (PPT)	8 hours?	Construction workers and employers.	Basic?	The grantee developed a Work Zone Traffic Control course and a Defensive Flagging course.	No cost	OSHA http://www.osha

Work Zone Safety Training Resources

As of August 27, 2013

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					Training materials include PowerPoint presentations, instructor guides, and student handouts. Materials are available in English and Spanish.		.gov/dte/grant_materials/fy10/sh-21004-10.html
Work Zone Safety OSHA Grant Number SH-19504-09	Presentation materials (PPT)	8 hours?	Roadway construction workers throughout the state of North Dakota.	Basic?	Courses include traffic control, highway equipment, work zone emergency preparation, and flagger modules. Training materials include 16 PowerPoint presentations with instructor notes.	No cost	OSHA http://www.osha.gov/dte/grant_materials/fy09/sh-19504-09.html
Strategies for Developing Work Zone Traffic Analyses COURSE NUMBER: FHWA-NHI-133110	Web-based training module	6 hours	District engineers, corridor planners, project engineers, traffic engineers, and work zone planners; FHWA Division Offices Staff, transportation engineers, traffic staff, planners, MPOs, and consultants.	Basic	Provides an overview of how traffic analysis tools can be applied specifically to work zone analysis problems. Traffic analysis tools represent various transportation modeling approaches such as sketch planning, travel demand modeling, and traffic simulation (microscopic, mesoscopic, and simulation approaches).	No cost	Available on internet at: www.nhi.fhwa.dot.gov/
Advanced Work Zone Management and Design COURSE NUMBER: FHWA-NHI-133115	Instructor Led Training	3 days	Design engineers, traffic and safety engineers, senior work zone traffic engineers, transportation planners, employees of metropolitan planning organizations and board members, regional planners, regional construction engineers (with work zone experience), and senior engineering technicians.	Accomplished	This course provides participants with advanced levels of knowledge and competencies with technical and non-technical aspects of work zone traffic control practices including work zone planning, design, project management, and contract issues. The course is designed to provide maximum flexibility by including core, recommended, and optional lessons. Each participant receives a copy of the "Advanced Work Zone Management and Design" reference manual and a participant workbook that contains all lesson materials.	\$500 per participant – 20 participants minimum, 30 participants maximum	Available on internet at: www.nhi.fhwa.dot.gov/
Design and Operation of Work Zone Traffic Control	Instructor Led Training	1 day	Design, construction, and maintenance personnel responsible for designing, installing,	Intermediate	Provides participants with information on the safest and most efficient work zone traffic controls, including the application of effective design and installation concepts; and using signs and markings for detours, construction zones, and	\$300 per participant – 20 participants minimum, 30 participants maximum	Available on internet at: www.nhi.fhwa.dot.gov/

Work Zone Safety Training Resources

As of August 27, 2013

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COURSE NUMBER: FHWA-NHI-133112			and monitoring work zone traffic control.		maintenance sites. The legal, administrative, and operational aspects also will be discussed. Classroom presentations include lectures, case histories, and workshops.		
Design and Operation of Work Zone Traffic Control COURSE NUMBER: FHWA-NHI-133112A	Instructor Led Training	3 days	Design, construction, and maintenance personnel responsible for designing, installing, and monitoring work zone traffic control.	Intermediate	Provides participants with information on the safest and most efficient work zone traffic controls, including the application of effective design and installation concepts; and using signs and markings for detours, construction zones, and maintenance sites. The legal, administrative, and operational aspects also will be discussed. Classroom presentations include lectures, case histories, and workshops.	\$500 per participant – 20 participants minimum, 30 participants maximum	Available on internet at: www.nhi.fhwa.dot.gov/
Maintenance Training Series: Basics of Work Zone Traffic Control COURSE NUMBER: FHWA-NHI-134109I	Web-based training module	1 hour	State, regional, and county personnel who manage operations programs and deal with oversight and quality assurance across broad geographic areas. This target audience also is involved with handling materials, scheduling, budgeting, and planning.	Basic	Provides an introduction to the requirements outlined in Part 6 of the 2009 MUTCD. The course also offers an overview of the manual's structure and requirements regarding traffic control devices and their applications, flagging operations and procedures, and pedestrian and worker safety.	No cost	Available on internet at: www.nhi.fhwa.dot.gov/
Work Zone Traffic Control for Maintenance Operations COURSE NUMBER: FHWA-NHI-133113	Instructor Led Training	1 day	State, county, and utility personnel, such as maintenance crews, survey crews, and utility crews, who are responsible for establishing traffic controls through short-term, utility, and maintenance work areas.	Accomplished	Provides guidance and training for field personnel working in the planning, selection, application, and operation of short-term work zones. The course addresses typical short-term maintenance activities occurring on two-lane rural highways and multilane urban streets and highways. The course covers the applicable standards for work zone protection contained in the "Manual on Uniform Traffic Control Devices" (MUTCD), discussing the need for proper application of devices, while addressing liability issues of highway agencies and individuals. Classroom presentation includes practical exercises to plan, set up, operate, and remove work zone safety	\$300 per participant – 20 participants minimum, 30 participants maximum	Available on internet at: www.nhi.fhwa.dot.gov/

Work Zone Safety Training Resources

As of August 27, 2013

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					devices, including appropriate flagging procedures for these operations.		
TCCC Maintenance of Traffic for Technicians COURSE NUMBER: FHWA-NHI-380098	Web-based training module	5 hours	Persons with direct responsibility for placement of work zone traffic control devices and field maintenance of work zone traffic control devices; inspection of the placement or operational function of work zone traffic control devices; and drafting or electronic generation of work zone traffic control plans.	Basic	Presents information about the placement of, field maintenance required for, and inspection of traffic control devices. In addition, drafting work zone traffic control plans and flagging are discussed. Includes: General Terms and Procedures; Traffic Channelizing and Control Devices; Traffic Control Zones; Flagger Operations; Traffic Control Zone Operations. This course is currently being updated to reflect changes in the MUTCD. Until this update is complete, please check all references to the latest MUTCD to make sure they are current.	No cost	Available on internet at: www.nhi.fhwa.dot.gov/
TCCC Maintenance of Traffic for Supervisors COURSE NUMBER: FHWA-NHI-133117	Web-based training module	5 hours	Personnel with responsibility or authority to decide on the specific maintenance of traffic requirements to be implemented. These positions include engineers responsible for work zone traffic control development and work site traffic supervisors.	Basic	Presents information about the placement of, field maintenance required for, and inspection of traffic control devices. In addition, drafting work zone traffic control plans and flagging are discussed. This training focuses on the design of a traffic control plan, and how and why one needs to operate and implement traffic control in the work zone. Includes: Fundamental Principles of Temporary Traffic Control Zones; Temporary Traffic Control Devices; Traffic Control Zones; Transportation Management Plans; Flagger Operations. This course is currently being updated to reflect changes in the MUTCD. Until this update is complete, please check all references to the latest MUTCD to make sure they are current.	No cost	Available on internet at: www.nhi.fhwa.dot.gov/
TCCC Maintenance of Traffic for Supervisors COURSE NUMBER: FHWA-NHI-380099	Web-based training module	5 hours	Same as FHWA-NHI-133117	Intermediate	Same as FHWA-NHI-133117	No cost	Available on internet at: www.nhi.fhwa.dot.gov/
Safe and Effective Use of Law Enforcement	Web-based training module	2 hours	Targets state troopers, state,	Basic	Provides law enforcement agencies with the practices and procedures to improve traffic safety in work zones. Provides basic knowledge to help	No cost	Available on internet at:

Work Zone Safety Training Resources

As of August 27, 2013

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Personnel in Work Zones COURSE NUMBER: FHWA-NHI-133119			county, municipal officers, and highway patrol officers who will participate in work zone activities.		save lives, avoid work zone crashes, and improve safety when working in a work zone. Provides tips for safe practices for law enforcement officers (LEOs) in work zones as well as providing for a safer work zone environment. Educates participants on the standards and guidelines related to temporary traffic control in work zones; the role of LEOs in work zones; the components of a typical work zone; and the proper practices and procedures related to the use of law enforcement officers in work zones.		www.nhi.fhwa.dot.gov/
Construction Zone Safety Inspection COURSE NUMBER: FHWA-NHI-133114	Instructor Led Training	1 day	FHWA safety engineers, FHWA highway engineers, and State and local personnel involved in the management of traffic control plans and the inspection of construction zone safety devices.	Basic	Management of traffic control plans and the inspection of construction zone safety devices. Participants receive instruction in traffic control plan review, inspection of traffic control procedures and safety devices, and the resolution of discrepancies from the traffic control plan, as well as on deficiencies in safety hardware maintenance. The following major topics are covered: Inspection of traffic control plan operation, maintenance of work zone signs and markings, inspection of construction safety hardware, and resolution of discrepancies from contract requirements.	\$300 per participant – 20 participants minimum, 30 participants maximum	Available on internet at: www.nhi.fhwa.dot.gov/
Construction Zone Safety Inspection COURSE NUMBER: FHWA-NHI-133114A	Instructor Led Training	1½ day	FHWA safety engineers, FHWA highway engineers, and State and local personnel involved in the management of traffic control plans and the inspection of construction zone safety devices.	Basic	Management of traffic control plans and the inspection of construction zone safety devices. Participants receive instruction in traffic control plan review, inspection of traffic control procedures and safety devices, and the resolution of discrepancies from the traffic control plan, as well as on deficiencies in safety hardware maintenance. The following major topics are covered: Inspection of traffic control plan operation, maintenance of work zone signs and markings, inspection of construction safety hardware, and resolution of discrepancies from contract requirements.	\$350 per participant – 20 participants minimum, 30 participants maximum	Available on internet at: www.nhi.fhwa.dot.gov/
TCCC Flagger Training COURSE NUMBER: FHWA-NHI-133118	Web-based training module	1 hour	Individuals that will be performing or are engaging in flagger duties on construction/mainte	Basic	This is a basic training in the area of flagger training. It has been designed for someone learning the first steps in performing flagger duties. This training does not go into individual state flagger training or certification	No cost	Available on internet at: www.nhi.fhwa.dot.gov/

Work Zone Safety Training Resources

As of August 27, 2013

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			nance projects. The course will assist them in better understanding the importance and duties involved with flagging on a project. It would be beneficial to the entry level employee as well as the experienced flagger.		requirements.		

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