

REQUIRED TRAINING

Work Zone Safety and Mobility training courses are listed below:

A	Traffic Control Technician (ATSSA) (prerequisite for the ATSSA 2-day Traffic Control Supervisor course)
B	Traffic Control Supervisor (CCA, MTA, or ATSSA)
C	Traffic Control Supervisor refresher course (CCA, MTA, or ATSSA) ¹
D	Advanced Work Zone Management and Design (NHI course #3800072)
E	Safe and Effective Use of Law Enforcement Personnel in Work Zones (ATSSA or FHWA) ²
F	Flagger Certification (½-day LTAP, 2-day ATSSA, or CDOT Flagger Certification Program)
G	Work Zone Safety/Flagging Certification (MTA)
H	4-hour Incident Management Training (CDOT or TSMO)

¹ Upon completion of the 2-day Traffic Control Supervisor course, a refresher course must be taken every three years.

² Upon completion of the ½-day Safe and Effective Use of Law Enforcement Personnel in Work Zones classroom training, the 2-hour interactive web-based FHWA course must be taken every three years as a refresher course.

The following outlines the minimum training required for the listed positions:

Work Zone Safety and Mobility Training Requirements		
Functional Class	Job Title	Required Training
CDOT Personnel	Project Managers	B or C
	Project Engineers	B or C
	Designers	B or C, D ³
	Maintenance	B or C, D ³ , G,H
Project Designers	Designers	B or C, D ⁴
Project Builders (General Contractors and Subcontractors)	Project Superintendents	B or C
	Traffic Control Supervisors	B or C, F
	Flaggers	F
Law Enforcement	Local Police Departments	E ⁵
	County Sheriff Departments	E ⁵
	State Patrol	E ⁵

³ Applies to design and maintenance personnel who design Traffic Control Plans.

⁴ Applies to designers who design Traffic Control Plans.

⁵ Applies to law enforcement personnel who provide uniformed traffic control on federal-aid projects.

TRAINING COURSE DESCRIPTIONS

C. Traffic Control Supervisors Training

COST: \$250 per Participant (2017 Price)

CLASS SIZE: Minimum 1, Maximum 5

TRAINING LEVEL: Basic

DESCRIPTION: This course is designed to give participants state-of-the-art knowledge of the entire process of planning, designing, installing, maintaining and monitoring traffic control for work zones. This training is offered to anyone responsible for any phase of construction and maintenance operations. These principles, applied to maintenance and construction operations can save your organization many times the cost of the course by helping avoid tort claims and liability judgments. This short course is a basic requirement essential to all persons involved in street and highway work. Several workshops included in this course use teambuilding and presentation of solutions to provide hands-on experience with implementing and modifying temporary traffic control plans for various real life situations.

TARGET AUDIENCE

In order to achieve the goal of improving training in Work Zone Safety, the Safety and Traffic Engineering Branch is utilizing Technical Training funding to provide the initial certification for the following CDOT individuals: Construction Project Personnel - CEPMs, Project Engineers, EPSTs; Maintenance Personnel –TMs. CDOT new hires need to complete the two (2) day training through the Colorado Contractor's Association (CCA), within 12 calendar months of their hire date, and re-certify accordingly there-after.

Contractor Personnel

The TCS training requirements for Contractor Personnel are included in the contract documents. The contractor will need to arrange for the training of their personnel using the approved vendor.

Consultant Personnel

Consultant personnel performing oversight duties on CDOT construction projects must meet the same requirements as CDOT personnel.

OUTCOMES: Upon completion of this course, participants will be able to:

- Read and interpret traffic control plans for implementation in the field
- Recognize, analyze, correct, and document deficiencies
- Be an effective Supervisor who can effectively oversee personnel in the field
- Demonstrate a comprehensive knowledge of work zone standards guidelines, installation, removal procedures, inspection, documentation and supervisory skills.

CONTINUING TRAINING REQUIREMENTS: Recertification through CCA shall be limited to CEPMs, Project Engineers, EPSTs; and Maintenance Personnel; and should occur no later than one day prior to the current expiration, which is three years from date of prior certification. If re-certification is not met, prior to certification expiring, the two day class shall be required.

TRAINING COURSE DESCRIPTIONS

C. Traffic Control Supervisors Training (*cont'd*)

SPECIFICATION REQUIREMENTS:

The specifications covering these requirements for Contractor personnel on CDOT projects are contained in the most current version of CDOT's Standard Specifications for Road and Bridge Construction and CDOT Standard Special Provisions.

For the most current information regarding versions of these specifications please refer to:

<https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-Specs>

For questions regarding these specifications, contact the Safety and Traffic Engineering Branch at 303-757-9662.

Training contacts and procedures are handled through CDOT public announcements, the internal web, and my learning.

If you have questions about this CDOT training, please contact CDOT Safety and Traffic Engineering Branch (Engineering Personnel) at 303-757-9662.

TRAINING COURSE DESCRIPTIONS

D. Advanced Work Zone Management and Design Training

COURSE NUMBER: FHWA-NHI-133115

http://www.nhi.fhwa.dot.gov/training/course_search.aspx?tab=0&key=133115&sf=0&course_no=133115

COST: \$825 per Participant (2017 Price)

CLASS SIZE: Minimum 20, Maximum 30

CEU: 1.8 Units

TRAINING LEVEL: Accomplished

DESCRIPTION: This three-day training course provides participants with advanced levels of knowledge and competencies with technical and non-technical aspects of work zone traffic control, including “best practices” in work zone planning, design, project management, and contract issues. The course designed to provide maximum flexibility by including core, recommended, and optional lessons. The default course consists of the core and recommended 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.

TARGET AUDIENCE: This course is intended for those who understand the principles of engineering judgment and studies, have considerable management or design experience in work zone traffic control, and have an understanding of the Manual on Uniform Traffic Control. This includes: state and local 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.

CDOT Designers - All CDOT Designers who design traffic control plans for federal-aid projects must obtain a Certificate of Completion for the course. Personnel will need to arrange for their own training through CDOT’s Office of Organizational Learning & Development.

Consultant Designers - All Consultant Designers who design traffic control plans for federal-aid projects must obtain a Certificate of Completion for the course. Consultant personnel will need to arrange for their own training through CDOT’s Office of Organizational Learning & Development or directly with NHI.

OUTCOMES: Upon completion of the course, participants will be able to:

- Apply the latest safety and mobility design concepts as it relates to temporary traffic control (TTC) plans for work zones
- Identify the latest MUTCD principles as it relates to TTC plans for planning, design, project management, and describe the various contracting issues that may need to be resolved
- Demonstrate knowledge of the latest concepts as related to Parts 1, 5 and 6 of the MUTCD
- Demonstrate knowledge of key concepts in the AASHTO Design Guide and other standards as related to such items as worker and flagger apparel (such as ANSI and similar standard guides)
- Evaluate work zone temporary traffic control designs for nighttime and daytime issues
- Analyze and evaluate operational, safety and mobility impacts of work zones, including scheduling, scope, phases and alternate routes

TRAINING COURSE DESCRIPTIONS

D. Advanced Work Zone Management and Design Training (*cont'd*)

- Consider the application of ITS technologies and where applicable apply ITS technologies to work zone planning, design and execution
- Consider alternative innovations, best practices and recent research findings in work zone planning, design and execution
- Develop temporary transportation management plans for safety and mobility
- List elements necessary for successful contracts and identify strategies for resolving contract issues, including best practices in work zone contracting, also identify tools to resolve conflicts with contracting issues
- Identify and resolve community issues, including impacts of work zones on affected residential and business areas. Apply public participation, outreach, and work zone strategies to minimize or mitigate community impacts with respect to work zones
- Identify and analyze specific (key) issues and concerns that affect work zone design and demonstrate ability to explain safety and mobility issues, impacts and alternatives to peers, public and/or decision makers
- Summarize work zone safety and mobility impacts and alternatives

CONTINUING TRAINING REQUIREMENTS: No requirements at this time.

SPECIFICATION REQUIREMENTS: No requirements at this time.

**If you have questions about this NHI training, please contact NHI at:
nhicustomerservice@dot.gov or 877-558-6873.**

TRAINING COURSE DESCRIPTIONS

E. Safe and Effective Use of Law Enforcement Personnel in Work Zones

COURSE NUMBER: FHWA-NHI-133119

COST: Free

CLASS SIZE: Varies with course delivery type (In-class vs. Online)

TRAINING LEVEL: Basic

DESCRIPTION: This course has two delivery methods: a ½ day classroom training and a 2-hour interactive web-based training (WBT.) It provides law enforcement agencies with the practices and procedures to improve traffic safety in work zones. The initial training for each participant must be taken in a classroom setting, and WBT course may be used to satisfy the ongoing training requirements.

Work zone law enforcement is highly effective in reducing speeding, speed variability, and undesirable driving behaviors such as tailgating and unsafe lane changes, which improves both traffic and worker safety. The presence of work zone enforcement is also believed to raise driver awareness and overall alertness, further improving work zone safety.

The purpose of this course is to provide basic knowledge to help save lives, avoid work zone crashes, and improve safety when working in a work zone. This course will provide tips for safe practices for law enforcement officers (LEO's) in work zones as well as providing for a safer work zone environment. This training will also educate participants on the standards and guidelines related to temporary traffic control in work zones; the role of LEO's 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.

TARGET AUDIENCE: This course is intended for state troopers, state, county, municipal officers, and highway patrol officers who will participate in work zone activities.

OUTCOMES: Upon completion of the course, participants will:

- Understand the existing national standards and guidelines for uniform treatment of temporary traffic control in work zones.
- Describe the role and responsibilities of LEO's in Work Zones
- Understand the terminology and proper communication channels associated with executing their role in work zones
- Explain proper practices and procedures related to the use of LEO's in work zones
- Recognize the component parts of work zones and typical types and configurations, including: long-term & short term construction, maintenance, mobile operations and any other type of project approved by the DOT or Local Agency
- Explain safe operating practices of LEO's working in a Temporary Traffic Control (TTC) zone

CONTINUING TRAINING REQUIREMENTS: Every three years a no cost online class may be taken in lieu of a classroom refresher course. The online class can be found at: FHWA-NHI-133119 <https://www.nhi.fhwa.dot.gov/home.aspx>

NHI certificates must be sent to CDOT in order to receive a new certification card.

Note: Students must take the course within six months of their initial enrollment with NHI.

TRAINING COURSE DESCRIPTIONS

E. Safe and Effective Use of Law Enforcement Personnel in Work Zones *(cont'd)*

SPECIFICATION REQUIREMENTS:

The specifications covering these requirements for LEO's on CDOT projects are contained in the most current version of CDOT's Standard Specifications for Road and Bridge Construction and CDOT Standard Special Provisions.

For the most current information regarding versions of these specifications please refer to:

<https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-Specs>

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