

Resources



IN 2010, 576 WORKERS AND MOTORISTS WERE KILLED IN HIGHWAY WORK ZONES, MORE THAN 37,000 WERE INJURED

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Did You Know?

A 727 jet would have to crash **every day of the week** with **no survivors**, to equal the 33,000 highway deaths per year in the U.S.!

(So then why does 1 plane crash every 5 years make more news?!)

Did You Know?

Drivers who use hand-held devices while driving are 4 times as likely to get into crashes.

Drivers reportedly distracted at the time of their fatal crashes increased from 7% in 2005 to 11% in 2009.

Did You Know?

In 2010 there were 105 fatal occupational injuries at road construction sites.



Did You Know?

4 out of 5 work zone **fatalities** are **drivers** and their **passengers**.

Did You Know?

Nationwide a work zone **fatality** occurs once every 15 hours!

42% of work zone crashes occur in the transition area *prior* to the work area.

National Work Zone Awareness Week

Calls Attention to Increases in Fatalities, Injuries, Road Hazards and Dangers of Work Zones

The annual *National Work Zone Awareness Week* (NWZAW) is held in April each year. The purpose of NWZAW is to educate the nation on work-zone related injuries and fatalities. Part of the education effort is to inform the public of the hazards and dangers that can be encountered and avoided when driving through a roadway construction zone.

Nationwide there were 32,885 **fatalities** in motor vehicle traffic crashes in 2010; 576 persons were killed in construction and utility work zones. In Colorado, although the average total motor vehicle traffic fatalities in 2005-2010 decreased, Colorado's average number of **work zone fatalities increased 8%** from what it was in 1999-2004.

To reverse this trend, a continued effort is needed to improve the safety of work zones. To respond to this need, the Colorado Local Technical Assistance Program (LTAP) has joined with the efforts of the other 57 LTAP-TTAP centers across the country to improve work zone awareness. Promoting National Work Zone Awareness Week is one step in this effort. Continued training on the standards and methods of traffic control through construction and maintenance work zones is another aspect of our effort.

Developed by Colorado LTAP, this booklet is provided to help YOU improve motorist, worker and pedestrian safety in roadway work zones.



Top 10 Worker Safety Tips



10. Encourage Safety with Co-Workers
9. Create a "Work Zone Plan" at Each Site
8. Stay Within "Safe Zone" While Working
7. Report Problems and Corrective Ideas to a Supervisor
6. Make Eye Contact with Driver of Moving Equipment
5. Be Alert of Motorists
4. Review Work Rules on Safety
3. Attend Safety Training Meetings
2. Obey All Safety Rules

#1 WZ WORKER SAFETY TIP...

1. ALWAYS WEAR PROPER SAFETY GEAR!



4 Contact Colorado LTAP for the laminated Safety Tips handout.

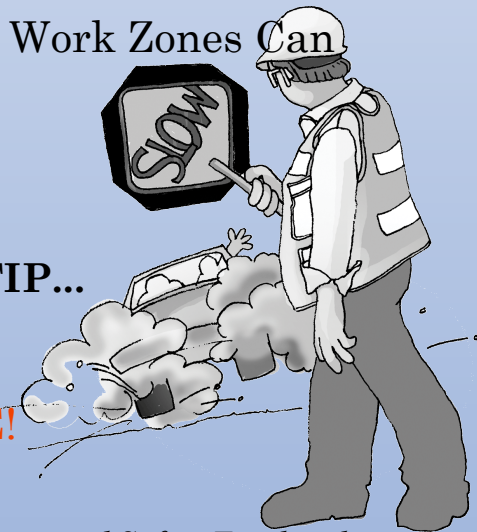
Top 10 Driver Safety Tips



10. Obey Road Crew Flaggers and Speed Limits
9. Look Out for Workers & Flag Persons
8. Don't Tailgate - Keep a Safe Distance Between You and Car Ahead of You
7. Avoid Changing Lanes In a Work Zone
6. Minimize Distractions, Such As Phones & Radio
5. Stay Alert
4. Be Patient - Roads Improvements Benefit YOU
3. Keep Up With The Traffic Flow
2. Expect the Unexpected - Work Zones Can Change Overnight

#1 WZ DRIVER SAFETY TIP...

1. PEOPLE WORK THERE!



5 Contact Colorado LTAP for the laminated Safety Tips handout.

SLOW FOR THE CONE ZONE

COLORADO DEPARTMENT OF TRANSPORTATION

To increase awareness and improve work zone safety, every summer June - September, CDOT teams up with the Colorado State Patrol and other local agencies to conduct the “**Slow for the Cone Zone**” campaign, which entails overtime enforcement on highly-visible construction projects across Colorado.

With every construction zone comes equipment, workers and even daily changes in the road and alignment you may be traveling. As a result, it is critical that you do your part to make the cone zones safe. Lower speed limits, flaggers and police enforcement are all used to help keep work zones safe, but *motorists* still need to drive responsibly.

Remember, in Colorado, fines are doubled for most infractions that occur in a work zone. 2006 marked the first year that the majority of fines in work zones are doubled. This law, also known as the Lopez-Forster Act, was named in honor of two CDOT maintenance employees that were killed in a work zone accident in 2004. Funds from the fine increase are used for work zone safety signage, equipment and additional enforcement on highway work zones.

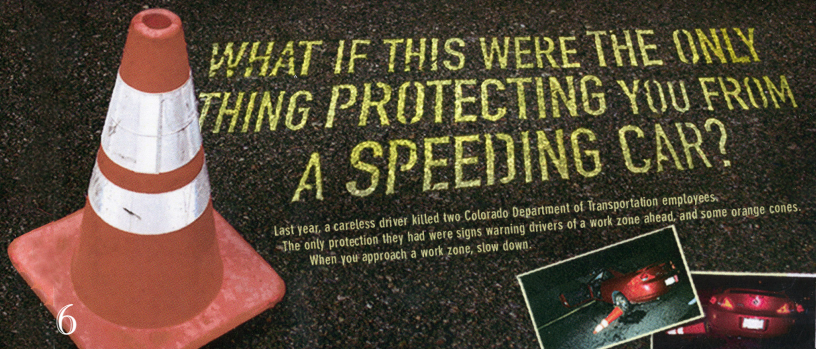
The campaign is active during CDOT’s peak construction season; however, it is important for motorists to pay attention in every work zone regardless.

CDOT’s Cone Zone Website has links for:

- Colorado Crash Statistics
- Safe Driving Tips
- Media Room
- Work Zone Campaign

Work Zone Safety Public Awareness

To increase awareness about work zone safety - a work zone logo, radio and television public service announcements, and a work zone poster are available for your use under the *Media Room* link at: <http://www.coloradodot.info/programs/cone-zone/>.



National Work Zone Safety Information Clearinghouse



The nation’s most comprehensive information resource on roadway construction zone safety. The Clearinghouse has the largest online library of free information including accident and crash data, latest technologies and equipment, best practices, key safety engineer contact information, laws and regulations, worker safety training materials, research and publications, public education campaigns, Spanish language materials and educational materials for new drivers.

National Work Zone Awareness Week (NWZAW)

Scheduled in April each year, NWZAW is a national campaign that helps increase public awareness of work zone safety. This site provides resources to help educate the nation on work-zone related injuries and fatalities and the hazards that can be encountered and avoided when driving through a road construction zone. Activities, Posters, WZ ribbons, T-shirts, media clips, news articles, and more.

Work Zone Safety Grant

SAFETEA-LU established the FHWA Work Zone Safety Grant Program. To date the Grant has generated a wealth of products, publications, and training resources for roadway construction industry practitioners. More than 45 guideline publications and field guides, 40 training modules, and an entire learning program have been developed to date. Access free guides such as *Guidelines on Work Zone Access and Egress*, *Work Zone Safety: Temporary Traffic Control for Maintenance Operations*, and more.

Webinars & Streaming Videos

View or download past webinars such as *Guidance on Managing Speeds in Work Zones* held on November 30, 2011.

ROADWAY SAFETY+

The Roadway Safety Awareness Program provides an overview of common hazards in road construction and simple prevention measures. It is designed to help your company produce the worker awareness needed to achieve best practices. The program contents are available in English, Spanish, and Portuguese.

Work Zone Fatalities & Fatal Occupational Injuries at Road Construction Sites

Data on fatalities in roadway work zones as a result of motor vehicle traffic crashes that are included in the Fatality Analysis Reporting System (FARS). The data is available by year and state.

WorkZoneSafety.org

Work Zone Safety

On the web

<http://www.fhwa.dot.gov/workzones>

Work Zone Mobility and Safety Program - The goal of this program is to “make work zones work better” by providing transportation agencies with high-quality products, tools, and information that can be used to help improve work zone management, and ultimately reduce congestion and crashes due to work zones. This website provides numerous resources that can be of value in planning, designing, and implementing safer, more efficient work zones. The site includes guidance for implementing the Work Zone Safety and Mobility Rule; a Best Practices Guidebook; ITS; Work Zone Self Assessment; Training; and free Technical Assistance opportunities.

http://www.ops.fhwa.dot.gov/wz/outreach/wz_awareness.htm

FHWA’s **National Work Zone Awareness Week** website provides history of the event, safety videos, and program-level public information, usable service announcements, and outreach examples.

<http://ops.fhwa.dot.gov/wz/p2p/index.htm>

The **Work Zone Peer-to-Peer Program** is a part of the FHWA Office of Operations Work Zone Mobility and Safety Program and provides agencies guidance in the application of methods, tools, and strategies to increase work zone safety. Free assistance is available in areas such as planning, public relations, impact analysis, enforcement, incident management, and more. The program has a list of people who are willing to volunteer their time and knowledge. Requesting agencies will be paired with professionals who have had similar situations arise and have found innovative solutions. A program coordinator will get your agency paired with a peer volunteer to get you started on finding the solution to your work zone problem.

www.thesafetylibrary.com/lib/constructionsafety/workzonesafety.php

The **Safety Library** is a collection of online resources including safety manuals, checklists, toolbox talks, insurance, legal and risk management on a variety of topics. The Work Zone Safety sub-section of Industry Safety > Construction Safety provides resources for work zone safety campaigns, materials, policies, equipment, devices, best practices for minimizing delay and enhancing safety during highway construction and maintenance operations, NCHRP Report 350, and crash worthiness of work zone appurtenances.

[http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/Crashworthy Work Zone Traffic Control Devices](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/Crashworthy%20Work%20Zone%20Traffic%20Control%20Devices) - FHWA policy calls for the use of crashworthy channelizers, signs, barricades, barriers, etc., in work zones on the National Highway System. “Crashworthy” devices are those that have passed a crash test conducted under the guidance of NCHRP Report 350, *Recommended Procedures for the Safety Performance Evaluation of Highway Features*. This site provides info about FHWA policy on crashworthy hardware, different categories of work zone devices, FHWA Acceptance Letters on all devices that have been deemed crashworthy, Frequently Asked Questions about work zone devices, and more.

NOTE: NCHRP Report 350 has been **updated and superseded** by the Manual for Assessing Safety Hardware (MASH) - http://www.workzonesafety.org/safety_products/nchrp_350_approval.

http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/policy_memo/memo112009/

Manual for Assessing Safety Hardware (MASH) - The purpose of this report is to present uniform guidelines for the crash testing of both permanent and temporary highway safety features and recommended evaluation criteria to assess test results. Guidelines are also presented for the in-service evaluation of safety features. MASH is an update to and supersedes NCHRP Report 350. MASH *does not* supersede any guidelines for the design of roadside safety hardware, which are contained within the AASHTO *Roadside Design Guide*. The MASH can be purchased from the AASHTO bookstore at: <https://bookstore.transportation.org>.

<http://www.cdc.gov/niosh/topics/highwayworkzones/>

As a leader in preventing workplace injuries, the National Institute for **Occupational Safety and Health’s Highway Work Zone Safety** website provides information on Highway Work Zones Fatality Investigation Reports, Crash Statistics and Prevention Strategies, an International Work Zone Safety Resources webpage, the new MUTCD, Construction Equipment Visibility, Protecting Workers in Construction, and Building Safer Work Zones.

<http://www.Flagger.com>

The **National Flagger Database** is managed by the American Traffic Safety Services Association (ATSSA) and provides a search for flaggers, state flagging requirements, classes, or instructors - by state of interest.

Online Flagger Training

OnlineFlagger.com American Traffic Safety Services Association (ATSSA)

<https://www.nhi.fhwa.dot.gov> National Highway Institute, search “Flagger”

<http://www.clrp.cornell.edu/flaggingTutorial/flagTutorial.htm>

NY LTAP Work Zone Safety and Flagging Tutorial

Work Zone Safety Online Publications

Work Zone Safety and Mobility Procedures

Colorado DOT, January 2009

and

Guidelines for the Use of Positive Protection in Work Zones

Colorado DOT, January 2010

Search “Work Zone Safety & Mobility” at: <http://www.coloradodot.info>

Colorado Work Zone Best Practices Safety Guide

Colorado DOT, 2007 (Updated February 2008)

<http://www.coloradodot.info/library/traffic/traffic-manuals-guidelines/lane-close-work-zone-safety/work-zone-booklets-guidelines>

Field Guide on Installation and Removal of Temporary Traffic Control for Safe Maintenance and Work Zone Operations

American Traffic Safety Services Association (ATSSA), August 2008

Search “Field Guide on Installation” at: <http://www.coloradodot.info>

Colorado Supplement to the 2009 MUTCD

Colorado DOT, January 2011

Search “MUTCD” at: <http://www.coloradodot.info>

Standard Highway Signs and Markings Book

FHWA, 2004 with 2012 Supplement

http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm

Manual for Assessing Safety Hardware (MASH)

NCHRP 350 has been *updated and superseded* by MASH

https://bookstore.transportation.org/item_details.aspx?ID=1539

Work Zone Intersection Safety

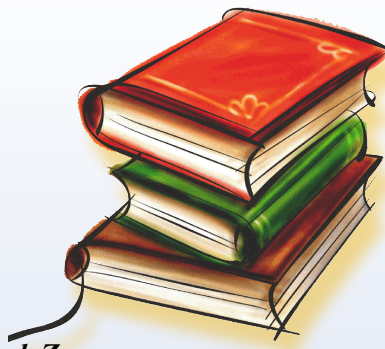
Federal Highway Administration, November 2009, FHWA-SA-10-005

<http://safety.fhwa.dot.gov/intersection/resources/fhwasa09027/resources/Intersection%20Safety%20Issue%20Brief%202016.pdf>

A Primer on Work Zone Safety and Mobility Performance Measurement

November 2011, FHWA-HOP-11-033

visit www.ops.fhwa.dot.gov/wz/decision_support/performance-development.htm



Recent Reports

Fact Sheet: Power Line Safety – Evaluating the Work Zone, March 2012

http://www.orosha.org/pdf/pubs/fact_sheets/fs46.pdf

Automated Speed Enforcement in Work Zones, Roadway Safety Consortium, 2012

<http://www.workzonesafety.org/research/record/21514>

Rear-End Crash Potential Estimation in the Work Zone Merging Areas

Journal of Advanced Transportation, March 2012

<http://www.workzonesafety.org/research/record/21466>

Work Zone Road User Costs—Concepts and Applications, December 2011

<http://ops.fhwa.dot.gov/wz/resources/publications/fhwahop12005/index.htm>

WZ Variable Speed Limit Systems: Effectiveness and System Design Issues

Virginia Transportation Research Council, March 2010

http://www.virginiadot.org/vtrc/main/online_reports/pdf/10-r20.pdf

Work Zone Design and Operation Enhancements

Oregon DOT, March 2010

http://www.oregon.gov/ODOT/TD/TP_RES/docs/Reports/2010/WorkZoneReport_Web.pdf

Improving Work Zone Safety: Why You Should Consider Water Ballast Traffic Control Devices (Alternatives to temporary concrete barrier for WZ traffic control.)

Water Barrier Manufacturers Association, 2010

http://www.workzonesafety.org/files/documents/database_documents/Publication10227.pdf

Accommodating Pedestrians with Visual Impairments In and Around WZs

Transportation Research Record, January 2009

<http://pubsindex.trb.org/view.aspx?id=881898>

Comparison of Automated Speed Enforcement & Police Presence in Work Zones

Transportation Research Board, January 2009

http://www.workzonesafety.org/files/documents/database_documents/Publication9936.pdf

Construction Project Administration and Management for Mitigating Work Zone Crashes and Fatalities: An Integrated Risk Management Model

Iowa State University, Institute for Transportation, October 2009

http://www.intrans.iastate.edu/reports/Shane_Work-Zone-Crashes_FINAL.pdf

High Visibility Safety Apparel



Compliant high visibility safety apparel shall be worn by all workers on all public and/or private streets and roads that the public has access to. Garments complying with the standard are now required by the Federal Highway Administration for anyone working in a right-of-way or highway workzone.

2009 MUTCD <http://muted.fhwa.dot.gov/>
Flagger Control - Section 6E.02 High-Visibility Safety Apparel
Pedestrian and Worker Safety - Section 6D.03 Worker Safety Considerations

<https://www.safetysupply.com/c/std107-2010.cfm>
ANSI/ISEA 107-2010: American National Standard for High Visibility Safety Apparel and Headwear (International Safety Equipment Association, 2010)
This standard provides a uniform, authoritative guide for the design, performance specifications, and use of high-visibility and reflective apparel including vests, jackets, bib/jumpsuit coveralls, trousers and harnesses. A revision to the standard in 2004 added criteria for headwear, and introduced test report forms.

<http://www.safetysupply.com/c/std207-2011.cfm>
ANSI/ISEA 207-2011: American National Standard for High Visibility Public Safety Vests (International Safety Equipment Association, 2011)
Authoritative document for the design, performance specifications, and use of high-visibility **vests** specifically worn by public employees. The standard includes basic requirements such as vest dimensions, color and materials performance.

Tips for Compliant High Visibility Safety Apparel

- Choose material colors to contrast the worker to their environment.
 - Consider seasonal variations in landscape and foliage when choosing colors for worker apparel.
- Visibility can be effectively increased by wearing Class 3 high-visibility apparel
 - Class E trousers worn in combination with a Class 2 vest or tee shirt equals a Class 3 ensemble.
 - Increase worker visibility by wearing compliant high visibility arm/leg bands, caps/hats, or hard hats that add to delineation of the human shape.
 - Compliant short or long sleeved tee shirts (Class 2 and/or Class 3)

12 • Inspect regularly to ensure color hasn't faded or Retroreflectivity isn't lost.

Nighttime Work Zone Operations

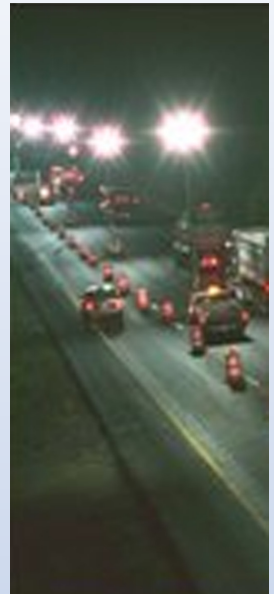
High traffic volumes on many roadways make it difficult to perform work zone operations in or near travel lanes during the day because of the disruption in traffic flow and the risk to workers and traveling public. As a result, all types of road work are increasingly scheduled for off-peak periods, particularly at night, to alleviate the problems of working in traffic. Night operations change the work environment.

Considerations on the worksite:

- Poor visibility for both motorists and workers
- Communication between shifts
- Impaired or drowsy drivers

Physical and social disruptions:

- Sleep disruption
- Risk of injury from drowsiness
- Impaired family/social relationships



Online Publications for Nighttime Operations

Guidelines for Design and Operation of Nighttime Traffic Control for Highway Maintenance and Construction, TRB's NCHRP Report 476, 2002
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_476.pdf

Traffic Control Handbook for Mobile Operations at Night, FHWA-SA-03-026, August 2003, <http://www.dot.state.il.us/blr/1023.pdf>

Training Program for Night Road Work to Improve Safety and Operations, NCHRP Research Results Digest 293, November 2004
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rrd_293.pdf

Additional resources available on FHWA's **Night Work/Off Peak Work** site.
http://ops.fhwa.dot.gov/wz/construction/night_offpeak_wrk.htm

- Deciding When to Use Night Work
- Improving Work Zone Traffic Control at Night
- Illumination Guidelines
- Example Specifications for Nighttime Operations

Work Zone Safety LTAP Lending Library



Colorado LTAP maintains a comprehensive transportation lending library. The library service includes a variety of instructional videos & publications. All media is available to agencies for checkout FREE for a 2-week period. All materials can be searched and ordered online through the Colorado LTAP website at: <http://ltap.colorado.edu/ltaplibrary/>

CDs for Loan

CD BTC	Basic Traffic Control for Utility Operation
CD BTCSDA	Basic Traffic Control for Short Duration Activities
CD DEWZAP	Driver Education Work Zone Awareness Program
CD GWZTC	Guidelines: Work Zone Traffic Control
CD IWZBF	Introduction To Work Zone Basics & Flagging
CD WZS	Work Zone Safety: Beyond Cones and Barrels
CD WZSFND	WZ Safety for New Drivers: Turning Point: Tool Kit for Trainers
CD WZSRMO	Work Zone Safety for Roadway Maintenance Operations
CD WZTLEC	Work Zone Training Law Enforcement Course
CD WZO	Work Zone Operations: Improving Mobility and Safety on Both Sides of The Barrel; Best Practices Guidebook

Videos for Loan

DVD50 ARB	Avoiding Runovers and Backovers
DVD50 AWS	The Abc's Of Work Zone Safety
DVD50 RCS	Road Crew Safety: Safe Practices for Road Construction/Paving Crews
V40 TCMW	Traffic Control For Maintenance Work Zone: Part 1 & 2
V50 BDIWZ	Barrier Delineation In Work Zones: Arrow Panels
V50 BDWZ	Barrier Delineation In Work Zones: Well-defined Path
V50 HWZS	Highway Work Zone Safety: One-step From Death
V50 ITZ	In the Zone: WZ Awareness for Teen Drivers
V50 NTTC	Night Time Traffic Control In Work Zones
V50 PS	Highway Work Zone Safety: Paving Safety
V50 QCMB	Quick Change Movable Barriers: General Information
V50 RDS	Highway Work Zone Safety: Removal & Demolition Safety
V50 SMS	Safety Made Simple: Abc's Of Work Zone Safety
V50 SS	Highway Work Zone Safety: Surveying Safety
V50 TOL	Thin Orange Line: Construction Inspectors in Work Zones
V50 USWZ	Work Zone Safety: Utility Safety In Work Zones
V50 WZSC	Work Zone Safety For Construction & Utility Employees
V50 WZSRL	Work Zone Safety For Rural Local Agencies
V50 LTUHE	Hwy WZ Safety: Loading, Transporting, & Unloading Heavy Equipment
V50 MOMS	Highway WZ Safety: Moving Operations & Maintenance Safety
V50 NWZTC	Nighttime Workzone Traffic Control
V50 TCTWZ	Traffic Control Thru Work Zones
V20 WZTL	Work Zone Tort Liability
V50 LCL	Life In The Closed Lane

Free Materials

FCD DEWZAP	Driver Education Work Zone Awareness Program, CD
F50 KFP	Know Flagging - Poster
F50 BSHWZ	Building Safer Highway Work Zones: Measures To Prevent Worker Injuries From Vehicles And Equipment
F50 BTC	Basic Traffic Control for Utility Operations: Guide To Temporary Control For Utility Operations
F50 CDOTGU	CDOT Guidelines for the Use of Positive Protection In Work Zones
F50 CWZI	Considering WZ Impacts: Planning for Safety, Mobility & Constructability
F50 FTM	Colorado Flaggers Training Manual
F50 EIAPO	Everyone Is A Pedestrian - A Safe Path Thru Work Zones
F50 GDTI	Guidelines for Developing Traffic Incident Management Plans for WZ
F50 GLEP	Guide for Law Enforcement Personnel In Work Zones
F40 MNCNVON	Mitigation of Nighttime Construction Noise, Vibrations, Other Nuisances
F50 NZ	Don't Hang Out In The No-Zone, brochure
F50 PPT	Work Zone Positive Protection Toolbox
F50 QGT	Quality Guidelines for Temporary Traffic Control Devices and Features
F50 SD	Shorter Duration, Safer Work Zones, Satisfied Travelers

Publications for Loan

B 5 WZTLEC	Safe And Effective Use of Law Enforcement Personnel in Work Zones: Training Course Instructor's Kit
40 FRCA	Full Road Closure for WZ Operations: Using Weekend Closures to Expedite Road Rehabilitation and Minimize Impacts on Motorists and Road Builders
40 FRCB	Full Road Closure for Work Zone Operations: Reducing Impact of Construction During Rehabilitation of a Major Interstate Highway
40 FRCC	Full Road Closure for WZ Operations: Accelerating Construction and Reducing Crashes During the Rehabilitation of a Major Downtown Route
50 DITCPHWZ	Development and Implementation of Traffic Control Plans for Hwy WZ
50 GRW	NCHRP 500 Volume 17: A Guide for Reducing Work Zone Collisions
50 FM	Utility Work Zone Traffic Control Field Manual
50 ITM	Installing and Maintaining Traffic Control Devices
50 PIGC	Project Inspector's Guide for the Work Zone
50 RGWZ	Reference Guide to Work Zone Traffic Control
50 MWZS	Work Zone Safety: Devices Development and Evaluation
50 GUPP	Guidelines on Use of Positive Protection in Temporary Traffic Control Zones
50 FGF	Field Guide for The Use And Placement Of Shadow Vehicles In WZ
50 IWZS	Integrated Work Zone Systems for Improving Travel Conditions And Safety
50 WZS	Work Zone Safety and Pavement Markings and Materials
50 WZSI	Work Zone Safety Inspection: Participant Notebook
50 WZSI 96	Work Zone Safety Inspection: Instructor's Guide
55 ITSDL	ITS in Work Zones: Dynamic Lane Merge System
55 ITSRT	ITS in Work Zones: Real-time Work Zone Traffic Control
55 ITSTT	ITS in Work Zones: Work Zone Travel Time System
55 ITSWZ	Intelligent Transportation Systems in Work Zones

Work Zone Safety LTAP En Español

Available at:

<http://ltap.colorado.edu/ltaplibrary>



Videos for Loan

V40 TCMW	Traffic Control For Maintenance Work Zone
V50 ABC	Abc's of Work Zone Safety – Spanish
V50 FTRT	Flagging Techniques for Roadway Traffic
DVD50 AWS	The Abc's Of Work Zone Safety
DVD50 DFS	Para Banderear A La Defensiva: Guia Para Sobrevivir
DVD50 DTD	Driven To Distraction 1&2
DVD50 DF	Para Banderear a la Defensiva: Una Guia Para Sobrevivientes (Defensive Flagging: A Survivor's Guide)

Publications for Loan

50 FTM	Manual De Entrenamiento Para Bandereros (Flagger Reference Guide)
50 PEP	Practicas Efectivas Para El Control De Trafico En Zonas De Trabajo En Las Carreteras, Calles Y Puentes (Effective Traffic Control Practices In Work Zones of Highways, Streets and Bridges)
50 RGWZ s	Guía De Referencia Para Controlar El Tráfico En Zonas De Obras (Reference Guide To Work Zone Traffic Control)
100 CS	Construction Spanish / Español de la Construcción

Free Materials

F50 BSSE	Basic Spanish for Safety & Emergencies Brochure
F50 CWZBPS	Guía De Mejores Practicas De Seguridad En Las Zonas De Trabajo En Colorado (Work Zone Best Practices Safety Guide)
F50 FHS	ATSSA's Manual Del Abanderado (Flagging Handbook)
F50 FTMS	CDOT Manual De Entrenamiento Para Bandereros (Flagger Reference Guide)
F50 PEP	Practicas Efectivas Para El Control De Trafico En Zonas De Trabajo En Las Carreteras, Calles Y Puentes
FDVD50 DF	Teex Defensive Flagging: A Survivor's Guide
F50 RGWZ s 16	Guía De Referencia Para Controlar El Tráfico En Zonas De Obras (Reference Guide To Work Zone Traffic Control)

Spanish Materials Online

La Prevención de Lesiones y Muerte del Trabajador Como Consecuencia de Choques Automovilísticos Relacionados con el Tráfico (Preventing Worker Injuries and Deaths from Traffic-Related Motor Vehicle Crashes)

www.cdc.gov/spanish/niosh/docs/98-142sp.html

Accidentes Viales Relacionados con el Trabajo Estrategias de Prevención para los Empleadores (Work-Related Roadway Crash Prevention Strategies for Employers)

<http://www.cdc.gov/spanish/niosh/docs/2004136Sp.htm>

Reduzca el Riesgo de una Fatalidad en la Zona de Trabajo en una Carretera o Autopista (Reduce the Risk of a Roadway Work Zone Fatality)

<http://www.landcarenetwork.org/riskmgmt/ssense/safetysenseaug07SP.pdf>

Recursos Adicionales en Español

http://www.workzonesafety.org/foreign_language_materials/spanish

La página electrónica nacional de Información sobre seguridad en las carreteras (Clearinghouse) proporciona información y vínculos electrónicos a otras páginas en un esfuerzo para facilitar la comunicación y el aprendizaje promoviendo la seguridad en zonas de trabajo y usuarios de carreteras de todo el mundo.

Manuales y Folletos tales como:

- *Para un Paso Seguro a Través de Zonas de Trabajo “¡No Olvide Las Indicaciones!”*
- *La Seguridad en las Zonas de Construcción de Carreteras: Una Introducción*
- *Para Banderear a la Defensiva: Una Guia Para Sobrevivientes*
- *El Manejar en Zonas de Construcción de Carreteras*
- *Equipo de Entrenamiento del Abanderado en Español*
- *Manual Oficial de OSHA para Seguridad en Construcción*
- *Frases Perfectas en Español para la Construcción*
- *Entrenando al Operador del Carro de la Elevación (TM) -- Paquete en Español para el Instructor*
- *Investigación de Accidentes*



