



# Work Zone Traffic Control Training

February 1, 2012

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# Work Zone Safety Training in VA

- **Prior to issuance of the 2007 FHWA Final Rule requiring trained personnel, WZS training was sporadic at best in Virginia**
  - A few one-day training classes were held in conjunction with the VA Road Builders, and a few of our districts conducted training for their maintenance and construction inspection personnel.
  - A few ATSSA TCT and TCS classes were also held annually.
  - Biggest complaints we heard from the construction industry on WZS training
    - Cost
    - Time away from work
    - Availability of training
    - If it's not mandated, I must not need it.

# Training Requirements – FHWA Final Rule

## 23 CFR 630 Subpart J

- Specifies that agencies require **appropriate training** for personnel involved in the **development, design, implementation, operation, inspection, and enforcement** of work zone related transportation management and traffic control.
- Focus is on **Job Duties** and **Responsibilities** related to work zone traffic control.
- The final rule required approved training procedures to be in place by **Oct. 12, 2007**.

# WZTC Training Procedures

## Work Zone Safety Training Committee

**Scheduling & Contract**

**Maintenance**

**Learning Center**

**Local Assistance**

**L&D**

**LTAP**

**TED**

**VTCA**

**FHWA**

**Consultant**



# WZTC Training Procedures

## Work Zone Safety Training Committee

Use Existing Training If Possible



Be Flexible

Sensitive to Costs

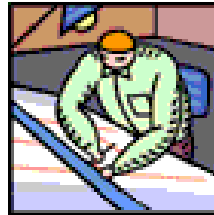


Make Sense

# WZTC Training Procedures

**Train personnel based on their job duties and responsibilities related to work zone traffic control.**

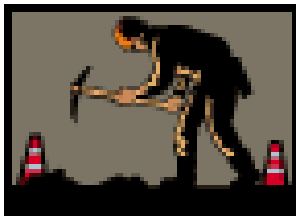
**Design**



**Construction**



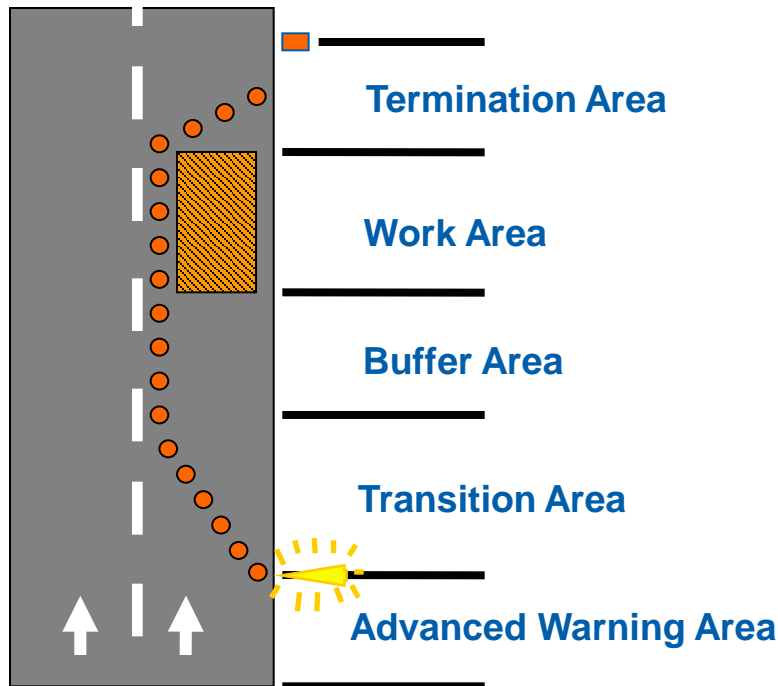
**Maintenance/Operations**



# WZTC Training Procedures

## Training Categories Identification

- **Basic WZTC Training** – Covers WZ fundamentals, 1 day in length.



# WZTC Training Procedures

## Training Categories Identification

- **Intermediate WZTC Training – Long Duration operations, 2 days in length.**







# WZTC Training Procedures

## Basic WZTC Course Content

- Liability and Risk
- WZ Types and Component Parts
- TTC Devices
- Making Adjustments to TTC
- Roles and Responsibilities
- Includes several exercises

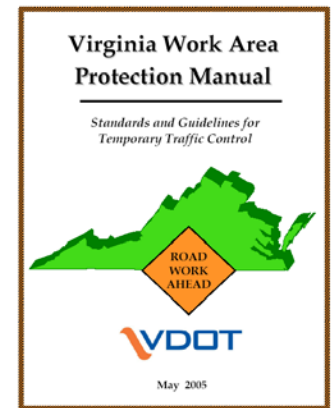


40 question open book/notes exam

# WZTC Training Procedures

## Intermediate WZTC Course Content

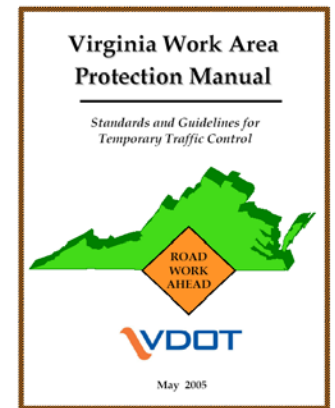
- Most of what is covered in the Basic WZTC +
- Human Factors
- Manuals and References
- Flagging Operations
- Laying Out, Installing, and Removing TTC
- Types of TTC Applications
- Reviewing and Documenting TTC



# WZTC Training Procedures

## Advanced WZTC Course Content

- Standards, Manuals, and References
- Fundamental Principles of TTC
- Human Factors
- Component Parts of TTC
- Design Considerations
- Developing TTC Plans
- Nighttime WZs
- Urban and Other considerations



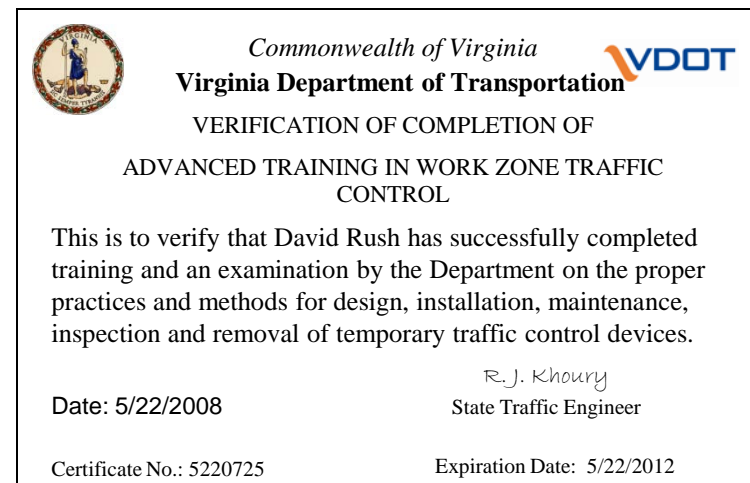
# WZTC Training Procedures

## Testing Requirements

A passing score of 80% or higher is required for passing a WZTC course.

Retesting allowed after 24 hours. A second failure requires person to take the course again.

Training cards are issued by the committee.



# WZTC Training Procedures

## Personnel Identification Based on Job Responsibilities

Areas of Responsibilities	Training Required	ATSSA Cert. Required	Minimum Required
Maintenance	Basic	No	One per work site
Contractor (non-supervisory)	Basic	No	One per work site
Utilities	Basic	No	One per work site
Maintenance Contract Monitors	Basic	No	All
Construction Inspection	Intermediate	No	At least one per project
Contractors (Supervisory)	Intermediate	No	At least one per project
Regional WZS Coordinator/TED WZ Staff	Intermediate	Yes	All
ES&H Safety Engineer	Intermediate	Yes	All
Traffic Control Supervisor (Special Provision)	Intermediate	Yes	All
District Contract Monitors	Intermediate	No	One per Residency
VDOT Land Development/Permit	Intermediate	No	One per Residency
Traffic Control Plan/MOT Designers	Advanced	No	One per design team

# WZTC Training Procedures

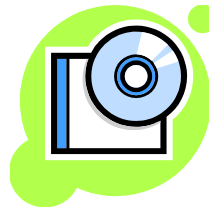
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# WZTC Training Procedures

## Delivery methods

**Use course material already developed by VDOT or . . .**



**Allow existing or new wz courses to be submitted, reviewed, and approved by the WZSTC.**





# WZTC Training Procedures

## Instructor Qualifications

**Basic** – completion of the Intermediate or Advanced course;

Flagger certified;

2 yrs. of experience in conducting training courses, and;

at least 2 yrs. of practical experience in highway design, construction, maintenance, or traffic operations.

# WZTC Training Procedures

## Instructor Qualifications

**Intermediate** – ATSSA TCS certified;

**Flagger certified;**

**2 yrs. of experience in conducting training courses, and;**

**at least 2 yrs. of practical experience in highway design, construction, maintenance, utilities, or traffic operations.**

# WZTC Training Procedures

## Instructor Qualifications

**Advanced** – ATSSA TCS or TCDS certified;

Flagger certified;

2 yrs. of experience in conducting training courses, and;

at least 2 yrs. of practical experience in highway design, construction, maintenance, utilities, or traffic operations.

# WZTC Training Procedures

## Forms



### Work Zone Traffic Control Training Instructor Application

The Virginia Department of Transportation has established formal training requirements for personnel involved in the design, inspection, maintenance, construction and oversight of transportation projects in Virginia. The requirement meets the FHWA Final Rule on Work Zone Safety and Mobility and involves the training of personnel based on their job duties and responsibilities related to work zone traffic control.

The training program is designed to provide maximum flexibility for the Department and the transportation industry to meet the requirements by allowing qualified individuals to serve as instructors for the program's three classes.

To become a VDOT authorized and approved trainer the following qualifications must be met for each respective class:

**Basic Course** – Completion of the VDOT Intermediate or Advanced course, VDOT or ATSSA flagger certification, completion of VDOT's Basic Instructor Course or two years of documented experience in conducting training courses, and two years of practical experience in Highway Design; Construction; Maintenance; or Traffic Operations.

**Intermediate Course** – American Traffic Safety Services Association (ATSSA) Traffic Control Supervisor (TCS) certification, VDOT or ATSSA flagger certification, completion of VDOT's Basic Instructor Course or two years of documented experience in conducting training courses, and two years of practical experience in Highway Design; Construction; Maintenance; Utilities or Traffic Operations.

**Advanced Course** – ATSSA TCS certification, VDOT or ATSSA flagger certification, completion of VDOT's Basic Instructor Course or two years of documented experience in conducting training courses, and two years of practical experience in Highway Design; Construction; Maintenance; Utilities or Traffic Operations.

An approved course and instructor listing will be posted on the VDOT WZS Training web site. Providers of training are required to submit a schedule listing date, time, location, and category of training a minimum of **90 days in advanced for VDOT personnel**, or **4 weeks for a closed class** and **8 weeks for an open class** (unless approved by the WZSTC chairman). **Any training course may be monitored by the WZSTC members or their representatives.**

### Work Zone Traffic Control Training Instructor Application

*(Please type or print legibly)*

**Applicant Name:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Telephone #:** \_\_\_\_\_ **E-Mail:** \_\_\_\_\_

**Please check the training instructor categories you are applying for:**

Basic                       Intermediate\*                       Advanced\*

\*ATSSA Traffic Control Supervisor (TCS) Certification Required

TCS Number: \_\_\_\_\_ Expiration: \_\_\_\_\_

**Please list your qualifications for being a Work Zone Traffic Control Instructor** *(attached additional pages as necessary):* \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**List two resource references we may contact to verify that you possess a minimum of two years of appropriate work zone experience in one or more of the following: Highway Design; Construction; Maintenance, Utilities or Traffic Operations.**

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Company: \_\_\_\_\_ E-mail: \_\_\_\_\_

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Company: \_\_\_\_\_ E-mail: \_\_\_\_\_

Return the complete form via fax to: WZSTC Chairman, 804-224-2448 or electronically to

David.Rush@VDOT.Virginia.gov

## WZTC Training Procedures

- To date, over 450 instructors have been approved.
- Instructors are located in MD, PA, NC, TN, OH, WV, & NH.
- 30 companies regularly conduct training on a monthly basis.



# Work Zone Traffic Control Training Champions

Training Champions were designated by each VDOT district and CO division to develop and implement a training plan.

Name	Location
Ken Brittle	Bristol District
Milton Thacker	Culpeper District
George Romack, P.E.	Fredericksburg District
Tim Rawls	Hampton Roads District
Shannon Cotulla, P.E.	Lynchburg District
Dick Steeg	NOVA District
Baron Gissendaner	Richmond District
Sean Grinnell, P.E.	Salem District
Matt Shiley, P.E.	Staunton District
Ray Khoury, P.E.	Traffic Engineering Div

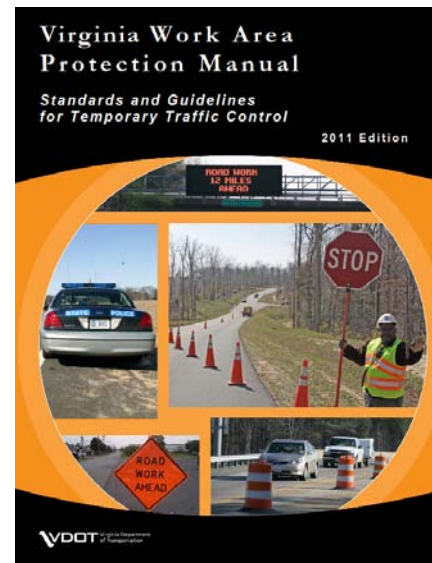
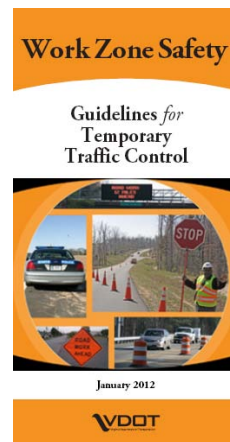
## WZTC Training Procedures

- Training was required by July 1, 2009, and all projects advertised thereafter.
- Minimum of one trained person on each work crew or project.
- Utility and Permit Personnel included.
- To date, over 25,600 have attended one of the three training courses since we started in 2008.



# WZTC Training Procedures

- Revised training materials have been developed based on the 2009 MUTCD and VA Part 6 changes.
- Will soon be outsourcing the data collection and production of WZTC training cards.





# WZTC Training Procedures

VDOT WZTC Training Procedures document:

[http://www.virginiaadot.org/business/resources/wztc/wztc\\_training\\_procedures.pdf](http://www.virginiaadot.org/business/resources/wztc/wztc_training_procedures.pdf)

<b>GENERAL SUBJECT:</b> Work Zone Safety		<b>NUMBER:</b> TE-345
<b>SPECIFIC SUBJECT:</b> Work Zone Traffic Control Training Procedures		<b>DATE:</b> Sept. 21, 2007
<b>LEARNING CENTER DIVISION APPROVAL:</b> <i>Barbara Patterson</i>		<b>TRAFFIC ENGINEERING DIVISION APPROVAL:</b> <i>R. J. Khoury.</i>
<b>DIRECTED TO:</b> District Administrators Division Administrators		
<b>SUPERSEDES:</b>		

Revised FHWA regulations provided in 23 CFR 630 Subpart J states that, “States shall require that personnel involved in the development, design, implementation, operation, inspection, and enforcement of work zone related transportation management and traffic control be trained, appropriate to the job decisions each individual is required to make.”

To ensure compliance with this requirement of the Work Zone Safety and Mobility final rule, a multi-disciplined Work Zone Safety Training Committee (WZSTC) was



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