

VG Young Presentation Transportation Safety & Tort Liability

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TEEX

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Work Zone Statistics

Trends in Texas

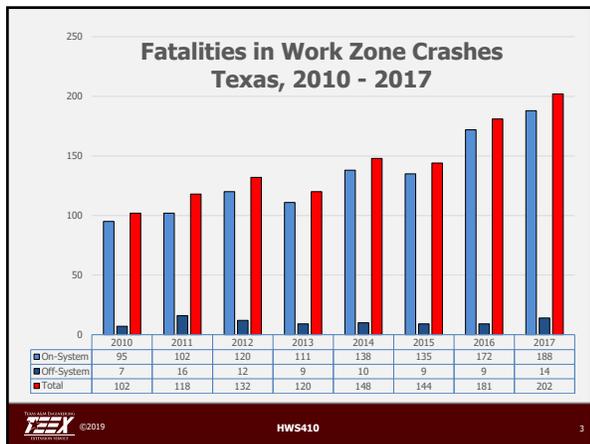
- Increase in work zone fatalities
- Economic and population growths increase road work projects



Source: Shutterstock

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Work Zone Statistics



Contributing factors:

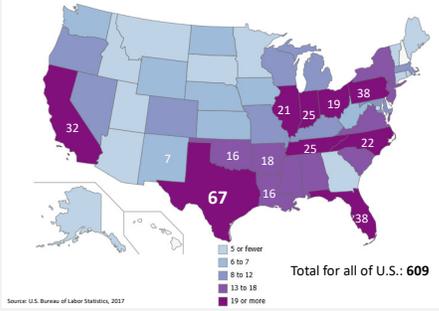
- Distracted driving
- Poorly implemented/maintained temporary traffic control (TTC)


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Work Zone Statistics

Workers killed at road work zones in U.S., 2011–2015




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Work Zone Statistics

Workers killed in pedestrian vehicular incidents, 2011–2015

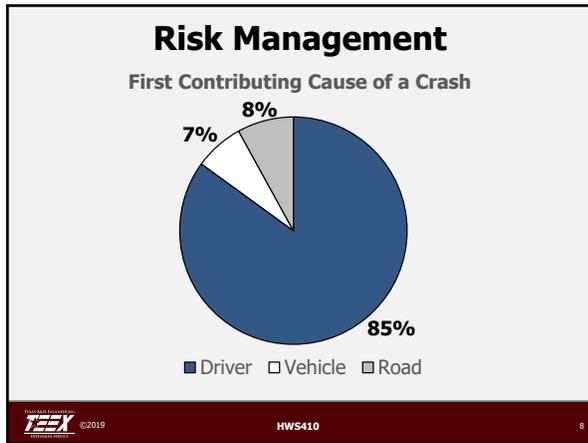
| Vehicle or Mobile Equipment | Fatalities |
|---|------------|
| Total number of fatalities | 279 |
| Automobile | 79 |
| Dump truck | 49 |
| Pickup truck | 48 |
| Semi, tractor-trailer, tanker truck | 26 |
| SUV, sports utility vehicle | 26 |
| Passenger van | 8 |
| Delivery truck or van | 5 |
| Backhoes, trackhoes | 3 |
| Rollers, compactors – construction | 3 |
| Skid steer loaders, mini loaders | 3 |
| Street sweeping and cleaning machinery | 3 |
| All other vehicles and mobile equipment | 26 |


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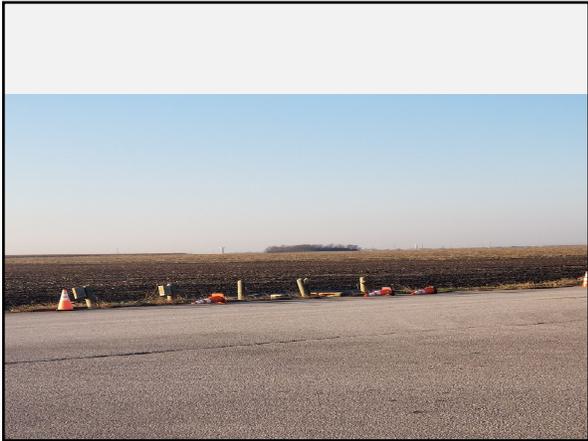
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TTC Regulations

TMUTCD requires emphasis on:

- TTC training to address worker safety
- Road-user mobility through TTC zone
- Pedestrian/bicyclist mobility; Americans with Disabilities Act (ADA) compliance
- Inspection TTC zone
- Improved public relations

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PRINCIPLES OF TRAFFIC CONTROL DEVICES

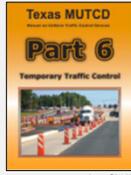
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Fundamental Principles of TTC

Primary function of TTC
(Section 6A.05. *TMUTCD*)

- Provide for the reasonably safe and effective movement of road users through or around TTC zones
- Reasonably protect road users, workers, responders to traffic incidents, and equipment



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Fundamental Principles of TTC

TTC selection depends on

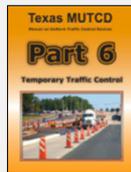
- Type of highway
- Road user conditions
- Duration of operation
- Physical constraints
- Nearness of work space to road users

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Fundamental Principles of TTC

Seven Fundamental Principles

1. General plans
2. Road-user movement
3. Clear, positive guidance
4. Inspections
5. Maintenance
6. Training
7. Public relations/communications

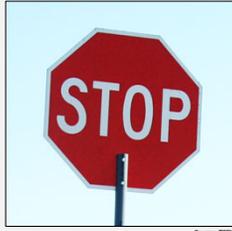


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Temporary Traffic Control

Uniformity of TCDs

- 1. See it
- 2. Understand it
- 3. Decide on a course of action
- 4. Do it

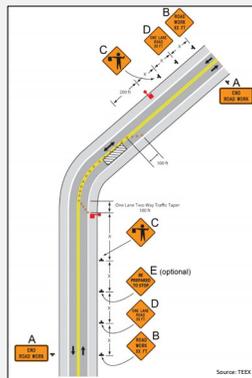


Source: TEEK

Uniformity helps us to move rapidly from 1 to 4.

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Flagger Operations

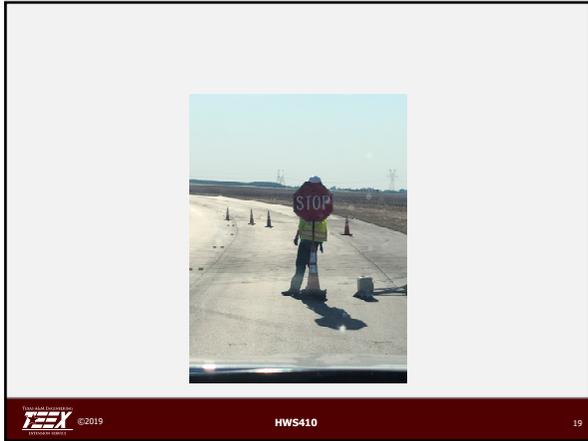


Source: TEEK

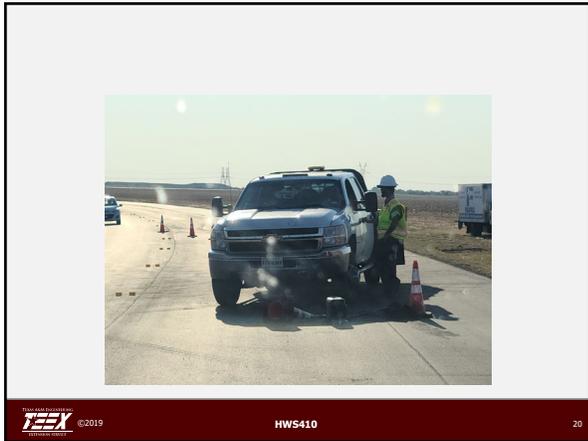
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TO BE EFFECTIVE DEVICES SHOULD:

- FULL A NEED
- COMMAND ATTENTION
- COMMAND RESPECT
- CONVEY A CLEAR, SIMPLE MEANING
- COMMAND RESPECT FROM ROAD USERS
- GIVE ADEQUATE TIME FOR PROPER RESPONSE

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Recognizing Deficiencies in TCDs

All items must

- Be clean
- Be installed straight and plumb
- Meet retro-reflectivity requirements

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Recognizing Deficiencies in TCDs

Deficiencies?



Source: TEEK

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Performing Inspections

Inspections should be performed after:

- Initial traffic control installation
- Traffic alignment changes
- Implementation of major traffic control phases



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Performing Inspections

Inspections should also occur after:

- High winds or storms
- A traffic incident, device movement to accommodate construction activities, or other activities that could cause the displacement



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Performing Inspections

Perform informal inspections

- At the:
 - Beginning of each work period
 - End of each work period
- When deficiencies are found, take immediate corrective action



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Performing Inspections



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Performing Inspections



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Thank You

TEEX Appreciates the Opportunity
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