



Lesson 1: Introduction

Lesson 1 Strategic Highway Research Program 2 (SHRP 2)

- Congress authorized SHRP 2 in 2005 to investigate the underlying causes of highway crashes and congestion in a short-term program of focused research
 - -Safety -Reliability
 - Renewal
- Capacity
- The National TIM Responder Training Program is the first reliability product being rolled out under SHRP 2



Designed to establish the foundation for and promote consistent training of all responders to achieve the three objectives of the TIM National Unified Goal (NUG): Responder Safety Safe, Quick Clearance Prompt, Reliable,

National TIM Responder Training

1. Introduction 6. Command Responsibilities 2. TIM Fundamentals and Terminology 7. Traffic Management 3. Notification and Scene Size-Up 8. Special Circumstances 4. Safe Vehicle 9. Clearance and Positioning Termination 5. Scene Safety

Lesson 1

Course Overview



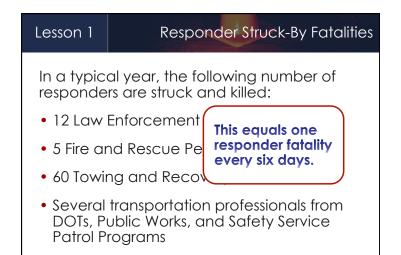
Lesson 1 Injury Crashes That's potentially 27 responders rolling out to a new injury crash every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every minute of every hour, 24/7/365 Image: Comparison of the every hour, 24/7/365

Lesson 1

Interoperable Communications





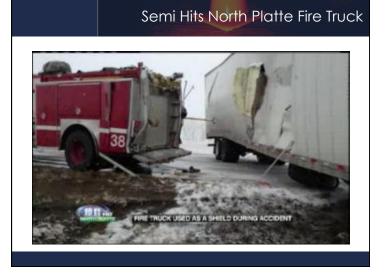




Semi Hits North Platte Fire Truck







Lesson 1

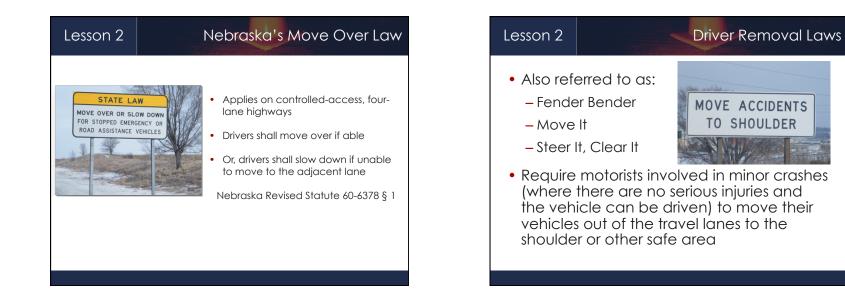
TIM Defined

- TIM consists of a planned and coordinated multidisciplinary process to detect, respond to, and clear traffic incidents so that traffic flow may be restored as safely and quickly as possible
- Effective TIM reduces the duration and impacts of traffic incidents and improves the safety of motorists, crash victims, and emergency responders



Lesson 2: TIM Fundamentals and Terminology

Lesson 2 Safe, Quick Clearance Safe, Quick Clearance... Second of the three main NUG objectives, it is the practice of rapidly, safely, and aggressively removing temporary obstructions from the roadway • Disabled vehicles • Debris • Wrecked vehicles • Spilled cargo



Authority Removal Laws

- Provide authority (and immunity from liability in general) for designated public agencies to remove vehicles and/or spilled cargo from the roadway to restore traffic flow
- Serious injury or fatality does not always preclude removal
- Often contain a Hold Harmless clause
- Implemented in a number of states

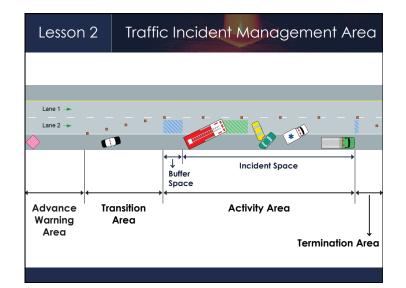
Lesson 2

Manual on Uniform Traffic Control Devices (MUTCD)

- Federal guideline for all traffic control nationwide
- It also covers all
 "workers" on all streets, roadways, or highways
- This course addresses what is required to adhere to MUTCD standards

Manual on Uniform Traffic Control of Street and Highways 2009 Edition

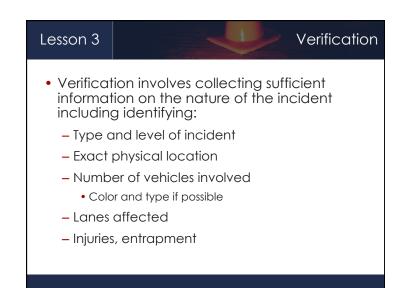
Lesson 2MUTCD Chapter 61Control of Traffic through Traffic Incident
Management Areas• Includes the following 5 Sections:
 – 61.01 – General (Information)
 – 61.02 – Major Traffic Incidents
 – 61.03 – Intermediate Traffic Incidents
 – 61.04 – Minor Traffic Incidents
 – 61.05 – Use of Emergency-Vehicle Lighting

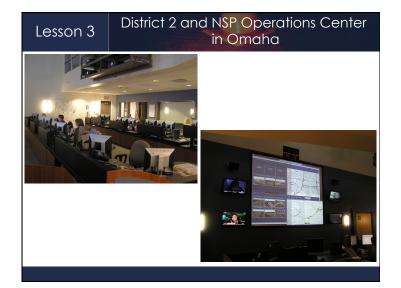






Lesson 3: Notification and Scene Size-Up













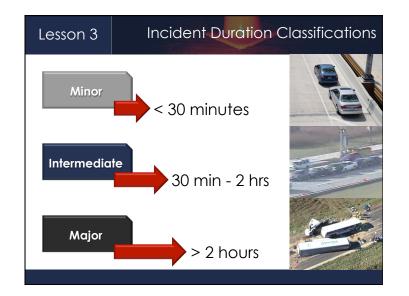


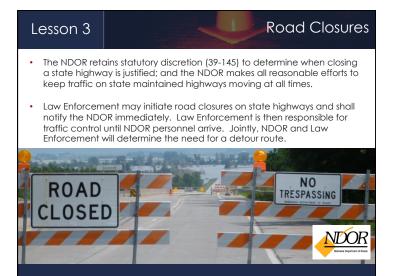
Typical F/R Windshield Size-Up Report:

"Unit one on-scene... Main Street... Minivan fully engulfed in flames in the right lane... The vehicle is leaking fuel... Assuming Main Street command "









Lesson 3 Uti

Utilize Your Roads Dept. Resources

- Safety is NDOR's (and your local road department's) main objective, too
- Reduced incident duration
 reduces risk
- Road department staff and assets are available
- It takes time to deploy staff and assets
- Call sooner not later...we
 can't assist unless asked





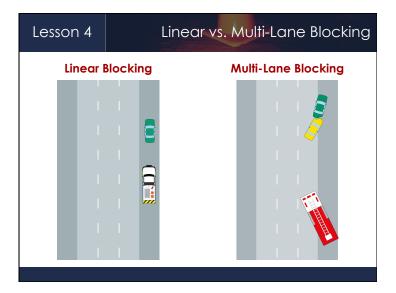
Lesson 4: Safe Vehicle Positioning

Lesson 4

Move It or Work It?

Move It: This refers to moving vehicles involved in an incident to a secondary location before being worked

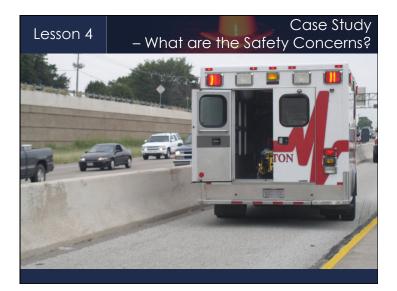
Work It: This refers to a situation where the vehicles involved cannot be moved to a secondary location before being worked









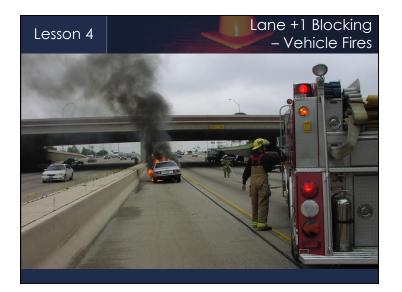


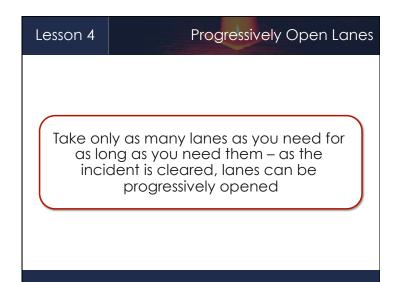




- By the very nature of fire/rescue and EMS work, additional space to work is typically required
- Lane +1 blocking occurs when responders block the involved lane(s) plus one additional lane to provide a protected lateral space for safety









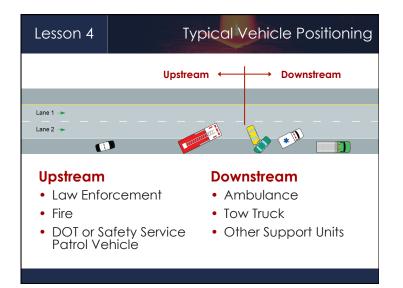


2016 Local Roads Conference







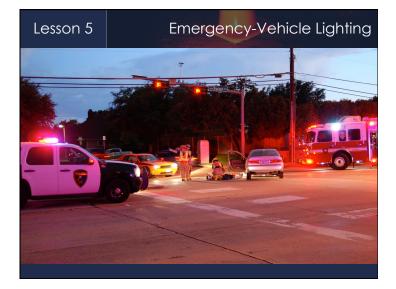




Lesson 5: Scene Safety







Responder Visibility

MUTCD Section 6D.03 states:

All workers, including emergency responders, within the right-of-way of a roadway who are exposed either to traffic (vehicles using the highway for purposes of travel) or to work vehicles and construction equipment **SHALL** wear highvisibility safety apparel...

Lesson 5

ANSI 107 vs. ANSI 207

ANSI 107 Class II Vest







access to items on belt

Lesson 5 MUTCD Section 6D.03 Exceptions

• Firefighters or other responders engaged in emergency operations that directly expose them to flame, fire, heat, and/or hazardous materials





Lesson 6: Command Responsibilities

Lesson 6	ICS c	and MUTCD Chapter 61
 (NIMS) rec ICS at traf managen A traffic in emergenc occurrenc disaster, o unplanne affects or 	nal Incident nent System quires the use of fic incident nent scenes ncident is an cy road user ce, a natural	<text><text><text><image/></text></text></text>

Command Structures

Single Command

 Incident Commander has complete responsibility for incident management

Unified Command

- Utilized when incidents require multi-jurisdictional or multi-agency response
- Allows all agencies to:
 - Work together without affecting authority, responsibility, or accountability
 - Manage an incident together by establishing a common set of incident objectives and strategies

Lesson 6

Physical Organization

Incident Command Post (ICP)

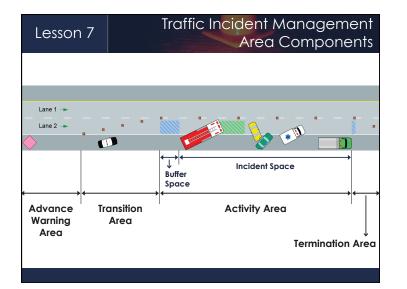
• The field location at which the primary tactical-level, on-scene incident command functions are performed

Staging Area

 Location established where resources can be placed while awaiting a tactical assignment

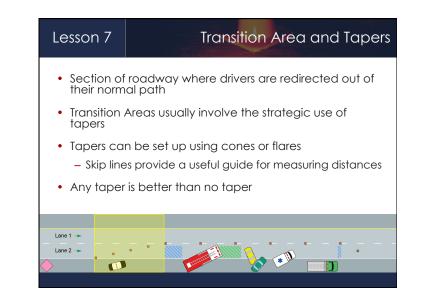


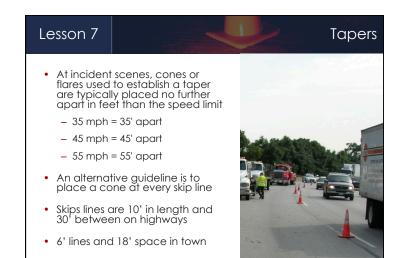
Lesson 7: Traffic Management

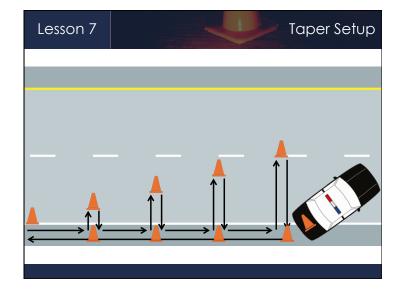








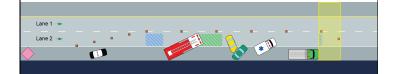




Lesson 7	Upstream (Longitudinal) Buffer Space	
 Separates the Transition Area from the Incident Space No vehicles should be positioned within the upstream Buffer Space Provides recovery area for errant vehicles Speed of passing traffic and sight distance should be considered when determining the length of the buffer space 		
Lane 1 → Lane 2 →		

Termination Area

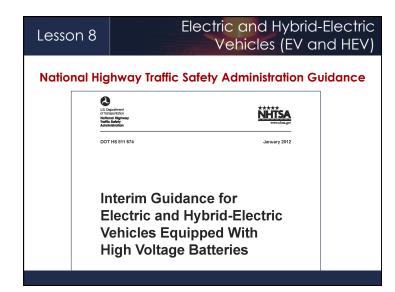
- Used to notify drivers that the Traffic Incident
 Management Area is ending and they may resume
 normal driving
- Includes the downstream buffer space and taper
- Protects emergency responders working at the end of the Incident Space
- Remember drivers will likely be frustrated from being stuck in traffic and may quickly accelerate

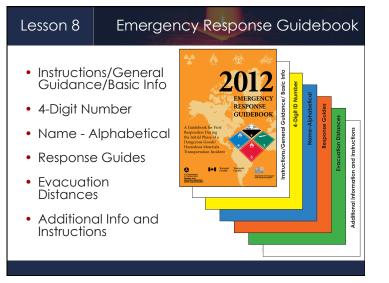




Lesson 8: Special Circumstances







Lesson 8 Spill Response – Vehicle Fluids

Once the spill has been identified as a vehicle fluid that does not meet reportable quantity thresholds:

- 1. Stop leaking material at the source
- 2. Contain and limit the spill from spreading
- 3. Apply available absorbents
- 4. Remove material from travel lanes
- 5. Gradually restore traffic flow



Lesson 8

Off-Site Landing Zones

• Use of an off-site landing zone is acceptable if there will be no delay to patient care



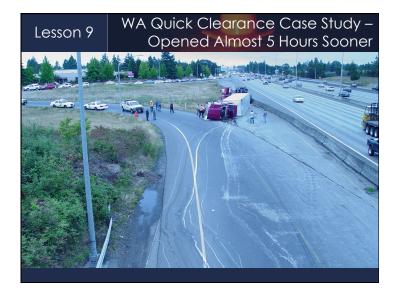




Lesson 9: Clearance and Termination Lesson 9 Move It – Push Bumper Case Study

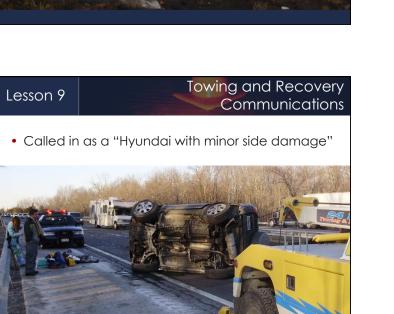






2016 Local Roads Conference





Lesson 9 Towing and Recovery • Tow operators depend on getting timely, accurate information from those on the scene • Operators depend on getting timely, accurate information from those on the scene

Towing and Recovery Communications

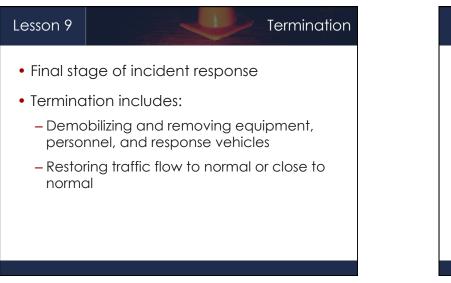
• Requested a "flatbed for a vehicle off the road"

Lesson 9





<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><complex-block>



Lesson 9

Termination Checklist

The balance

- ✓ Let other responders know when you're leaving
- Protect towers while they finish up
- Check with Incident Commander prior to leaving
- Make sure all personnel are accounted for
- ☑ Let the TMC know that lanes are open