

Instructor Introductions

- Rick Chron General Manager, United Road Towing Dallas, Inc. (*Retired*)
- Tim Fornash Police Officer, Fort Worth Police Department
- John James Dispatch Operations Manager NTX Wrecker Service
- John Key Fire Captain, Irving Fire Department (Retired)
- Ron Moore Independent Fire Instructor
- Daniel Plumer Captain, Dallas County Sherriff's Office
- Anthony White Special Jobs Coordinator II, TXDOT
- Kareem Williams Roadside Safety Services Manager, NTTA
- Charles Yancey Fire Captain, Irving Fire Department

Student Informa	tion			
Name				
Agency				
Years on the Job				
**Chief Traffic				-
Complaint				

e Overview		
Outline		
1.) Introduction, Real World Examples		
2.) Terminology, Statistics, Laws		
3.) Detection & Verification, TMCs		
4.) Response: Arrival and Size-up, Move It-Work It, Linear-Block, Zero Buffer		
5.) Responder Safety: Apparel and PPE / Chevrons / Vests / Light Shedding		
6.) Command		
7.) Traffic Management, Student Activities		
9.) Situational Awareness		
10.) HOV, Managed and Express Lanes		
11.) Special TIM Scenarios: Hazmat, Fatalities, Vehicle Fires, Hybrid/Evs		
12.) Clearance, Towing, Investigations, Termination		
13.) Table-top Scenarios		
14.) Closing: Web-based, EMS CEUs, TCOLE, Evaluations, Certificates		



Definition Of Traffic Incident Management

Traffic Incident Management is a set of actions and procedures by multiple agencies and private sector partners acting cooperatively and in a coordinated way to:

- Prepare for incidents
- Quickly detect incidents
- Respond to incidents
- Remove the incident
- Effectively address lingering effects of traffic incidents on traffic flow and safety







Definition Of Traffic Incidents

- Any unplanned event that causes a reduction of roadway capacity
- Caused by disabled vehicles or major crashes
- Secondary collisions occur as a result of traffic backup from a previous traffic incident



Goals for Improving Incident Management

- Improve safety for motorists and responders
- Improve air quality
 - Environmental Protection Agency (EPA) sets air quality goals
 - Dallas-Fort Worth is an air quality nonattainment area
- Reduce congestion and improve roadway efficiency
- Increase inter-agency coordination
- Increase motorist awareness
- Build a positive public image



The Problem

- Traffic congestion is consistently ranked as a top concern of people in Texas on all roadways
- Three municipalities; Austin, Dallas-Fort Worth, and Houston are all on the list of the top 20 most congested cities in the US
- Congestion lasts long after the road is cleared
- Non-recurring congestion reduces efficiency
 - 50 percent is recurring congestion road use routinely exceeds existing capacity
 - 50 percent is due to non-recurring congestion temporary disruptions
- Traffic congestion cost motorists in the North Central Texas Metropolitan Planning Area \$12.1 billion per year in wasted travel time in 2018 – that figure is expected to increase \$27.2 billion per year by 2045



Identify Partners In The Incident Management Program

- Law enforcement
- Fire and rescue
- Emergency medical services (EMS)
- Transportation agencies, dedicated patrols, and mobility assistance patrols
- Traffic control centers
- Towing and recovery service providers
- Motor Carriers
- Insurance Adjusters
- Dispatchers/Calls Takers
- Media
- Information service providers
- Coroners and medical examiners
- First receiver's (Hospital personnel receiving patients)
- Hazardous materials cleanup providers Each Has a Role to Play

The National Unified Goal

Under leadership of the National Traffic Incident Management Coalition (NTIMC) and major national organizations representing traffic incident responders, three key objectives and 18 strategies related to those objectives were developed.

- The three objectives of the National Unified Goal (NUG) for Traffic Incident Management are:
 - Responder safety
 - Safe, quick clearance
 - Prompt, reliable communications



Why Better Incident Management Is Necessary

- Thousands of incidents occur every day
- Incidents cause queue formation and secondary accidents
- Unplanned Events Responsible for about 25 percent of all traffic congestion
- Secondary crashes kill or injure hundreds annually in the Dallas-Fort Worth area
- Economic loss is more than \$90 billion nationwide each year
- Improve safety for motorists and responders
- Increase interagency coordination





- Safety is the Number One priority
- Gain awareness of all aspects of incident management
- Next we'll discuss the best practices available for technology, training, and tactics







Texas Manual on Uniform Traffic Control Devices (TMUTCD) (Cont.)

- Chapter 6I
 - Highway emergency scenes are now "Traffic Incident Management Areas" (TIMAs)
 - Responders are now classified as "highway workers"
- Chapter 6I defines minor, intermediate, and major duration incidents
 - Minor duration -< 30 minutes
 - Intermediate duration 30 minutes to 2 hours
 - Major duration -> 2 hours
- Major versus minor incidents
- Temporary work zone: 60 minutes or less
- Simplified traffic control procedures
- Section 6C.02 of the TMUTCD











Common Response Terminology (Cont.)







Common Response Terminology (Cont.)









Common Response Terminology (Cont.)

Examples Include:

- On-ramp/Off-ramp
- Service road/Access road
- Distributor/Collector road
- Overpass/Underpass



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Injury Crash (Cont.)

 That's potentially 27-54 responders "working in or near moving traffic" every minute of every hour, 24/7/365!









Responder Safety

In a typical year, the following number of responders are struck and killed

- 10 Law enforcement officers
- 4 Fire and rescue personnel
- An Estimated 40-60 Towing and Recovery Professionals
- Several transportation professionals from DOTs, Public Works, and Safety Service Patrol Programs
- Resources for Responder Involved Incident Statistics <u>www.respondersafety.com</u> <u>www.firefighterclosecalls.com</u>





"Struck-By" Incidents (Cont.)

 Out-of-control 18-wheeler slams into unprotected incident scene as patient is being loaded in ambulance



"Struck-By" Incidents (Cont.)







Triple Fatality Struck-By: Chelsea Richard

At a Crash Scene

- Trooper Chelsea Richard, tow truck operator John Duggan, and civilian George Robert Phillips were struck and killed on I-75 near Ocala, FL on May 3, 2014
- All three were at the scene of a single vehicle crash when a passing vehicle lost control and struck them



Triple Fatality Struck-By: Chelsea Richard (Cont.)



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Traffic Incident Management - First Responder and Manager's Course



EMS Struck-By: EMT Esteban Bahena

Setting Out Flares

- EMT Esteban Bahena, 24, died after being struck by a vehicle on State Route 163 in Hillcrest, CA on April 1, 2010
- Bahena was laying out flares after his crew had assessed the patients, following a single-vehicle crash when he was struck



EMS Struck-By: EMT Esteban Bahena (Cont.)



Towing and Recovery Struck-By: Tow Truck Operator Blake Gresham

Loading a Vehicle

- Tow truck operator Blake Gresham, 18, died after being struck by a box truck on I-35 in Kansas City, MO on August 27, 2012
- Gresham had loaded a vehicle onto his flatbed truck and was tightening the chains to secure the vehicle when he was struck



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Towing and Recovery Struck-By: Tow Truck Operator Blake Gresham (Cont.)













Authority Removal – "Red Tag Law"

- In Texas, a motor vehicle is abandoned if the motor vehicle:
 - Is inoperable, is more than five years old, and has been left unattended on public property for more than 48 hours
 Has remained illegally on public property for more than 48 hours
 - Has remained on private property without consent of owner or person in charge of the property for more than 48 hours
 - Has been left unattended on right-of-way of a designated county, State, or federal highway for more than 48 hours
 - Has been left unattended for more than 24 hours on right-of-way of a turnpike project constructed and maintained by the Texas Turnpike Authority
- A law enforcement agency may take into custody an abandoned motor vehicle, aircraft, watercraft, or outboard motor found on public or private property
- A law enforcement agency may use agency personnel, equipment, and facilities or contract for other personnel, equipment, and facilities to remove, preserve, store, send notice regarding, and dispose of an abandoned motor vehicle, aircraft, watercraft, or outboard motor taken into custody by the agency
- An authority or law enforcement agency may remove personal property from a roadway or right-of-way if the authority or law enforcement agency determines that the property blocks the roadway or endangers public safety
- Personal property may be removed without the consent of the owner or carrier of the property
- Notwithstanding any other provision of law, an authority or a law enforcement agency is not liable for:
 - Damage to personal property removed from a roadway or right-of-way, unless the removal is carried out recklessly or in a grossly negligent manner
 - Damage resulting from the failure to exercise the authority granted

Texas Authority Removal Laws

- TX Transportation Code
- Title 7. Vehicles and Traffic
- Subtitle C. Rules of the Road
- Chapter 545. Operation and Movement of Vehicles



Sec § 545.3051 Removal of Personal Property from Roadway or Right-of-Way

 A transit authority or law enforcement agency may remove personal property from a roadway or right-of-way

HB 993

Closure of a road or highway by certain firefighters

- A fire department operated by an emergency services district
- A volunteer fire department
- A fire department of a general-law municipality
 - A firefighter, when performing the firefighter's official duties, may close one or more lanes of a road or highway to protect the safety of persons or property



The closure shall be limited to the affected lane or lanes and one additional lane unless the safety of emergency personnel operating on the road or highway requires more lanes to be closed










Strategies For Improving Detection And Verification

- Dedicated roving patrols
- Supplemental signing for location identification
- Dedicated incident phone number
- Have dispatch get vehicle make/model/color
- Have public give you mile markers



Strategies For Improving Detection And Verification: Emerging Technology

- Automated collision notification and automated vehicle location systems (Mayday)
- Automatic Vehicle Identification (AVI)
- Cellular geolocation
- Microwave radar detectors
- Portable detection and surveillance systems



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Verification Activity (Cont.)





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Goals Of Intelligent Transportation Systems (ITS) and Traffic Management Centers (TMC)

- Improve safety and travel times
- Enhance local and regional mobility
- Manage congestion
- Maximize the capacity of the existing infrastructure without having to build new freeway lanes



Traffic Management Center (TMC)

TMCs are information, communication, and traffic control hubs with live operators...

- Operating 24/7
- Providing system monitoring and incident detection
- Controlling various traffic management and motorist information systems





Dallas-Fort Worth Area ITS Equipment: Closed Circuit Television (CCTV), Dynamic Message Signs (DMS), Vehicle Detectors

- Observe freeways, frontage roads, and arterials
- Provide a quick assessment of traffic incident severity
- Transmit data via fiber optic cables or wireless communications technology



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HELP Alert System

- The HELP Alert System is an emergency alerting service used during extreme weather situations and incidents when travelers are stuck on the road for an extended period (> 4 hrs.)
 - Saves Lives
 - Integrated with Federal Emergency Management Agency's (FEMA) Integrated Public Alert and Warning System (IPAWS)
 - Mitigates Risks
- No App Needed
- Accurate Updates Directly to the Traveler
- Clear Picture of Event Queue Length
- Reduced Non-Emergency Calls

HELP Alert System (Cont.)

- How HELP Alerts Work
 - Contact the TxDOT Fort Worth TMC as soon as it's determined that an incident will take more than 4 hours
 - Geo-targeted alerting means only people in and around the incident scene are alerted to the system activation



TMC Contact Numbers TxDOT Dallas TMC – DalsTrans Control Center 214-319-3601 Counties: Collin, Dallas, Denton, Ellis, Kaufman, Navarro, and Rockwall TxDOT Fort Worth TMC - TransVision Main 817-370-3661 TxDOT Fort Worth TMC – TransVision Control Center .. 817-370-6656 Counties: Erath, Hood, Jack, Johnson, Palo Pinto, Parker, Somervell, Tarrant, and Wise NTTA Safety Operations Center 214-224-2203 Managed Lane Facility Operators (CDAs) 86

Detection and Verification Conclusion

- More ITS equipment will become available
- 511 system

Dallas-Fort Worth will rely more and more on ITS for

- Detection of incidents
- Coordinating response
- Informing the public
- Data collection







Regional Congestion





Emergency Vehicle Operation

Risk to responding vehicles





St. Louis Fire Trucks Collision Video





Mobility Assistance Patrol Contact Numbers

- Dallas County Operations Mobility Assistance Patrol 214-320-4444
- Tarrant County Operations Mobility Assistance Patrol 817-884-1213
- NTTA Operations Mobility Assistance Patrol 214-224-2203
- LBJ Express Operations Mobility Assistance Patrol 877-525-3979
- North Tarrant Express Operations Mobility Assistance Patrol 682-334-5470

DALLAS	COUNTY	NTTA
Mon - Fri 5 am - 9:30 pm	Mon - Sun	Mon - Sun
Sat - Sun 11 am - 7:30 pm	6 am - 10 pm	24 hours/day

CDA (NTE)	CDA (LBJ)	CDA (DFW)
Mon - Sun	Mon - Sun	Mon + Fri 6:30 am - 8:30 am and 3:30 pm - 7 pm
24 hours/day	24 hours/day	



What Is Initial Size-Up?

- Initial or <u>windshield</u> size-up of the current situation, the <u>actions</u> that will be required to mitigate the situation, and the <u>resources</u> that will be required to support those actions
- Should take into consideration the <u>safety</u> situation encountered by responders, <u>quick clearance strategies</u>, and the <u>impact on</u> <u>traffic</u>







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
- When possible, moving the incident is preferred since it clears the incident from the roadway and obstructs traffic less - a very effective quick clearance strategy











A 'Linear' EMS Call In a Residential Neighborhood









Fire Apparatus Safe Positioning

Vehicle firefighting also requires "Lane + 1" blocking



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Lane + 1 Blocking

 To increase safety, use the "Lane + 1" blocking protocol <u>initially</u> to create an adequate "buffer" for responders



Safe Positioning

• "Safe positioning" begins with a 'block'





Blocking (Cont.)

Large, heavy fire apparatus provide the best 'blocks'





Lane + 1 Blocking

Remember, the <u>shoulder</u> counts as a lane



Critical Wheel Angle Turn front wheels of blocking vehicles <u>away</u> from work area!











Blocking (Cont.)













Safe Positioning: 2-Lane Road (Cont.)



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A 'Zero Buffer' Struck By Video





Avoiding the Zero Buffer Area

 LE traffic stop with non-traffic side occupant contact to avoid the zero buffer hazard area





Blocking

What is your agency's policy?




The Block Gets Hit (Cont.)









Blocking: Irving Fire Department Struck-By (Cont.)











The Block Gets Hit (Cont.)

















Responder Safety: Vehicle Visibility (Cont.)

 The NFPA Standard now requires chevron markings on ambulances as well



Light Shedding: Use of Emergency-Vehicle Lighting

 Though essential for safety, use of too many lights at an incident scene can be distracting and can create confusion for approaching road users and other responders



Light Shedding: Forward-Facing Lights



Responder Safety: Personnel Identification And Visibility

- All responders must be readily identifiable
- Non-uniformed personnel need reflective vests
- Reflective material required for long-term incidents
- Vests may indicate the roles of responders



















Responder Safety: High-Visibility Safety Apparel (Cont.)



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Responder Safety: High Visibility Safety Apparel Standard: ANSI/ISEA 107-2015

Garment Type Designation	iyh "0 Off-ru v	Type Road	e "R" dway	Type "P" Fire, Police, EMS Personnel		
Performance Class	Class 1	Class 2	Class 3	Class 2	Class 3	
Background Material Amounts	-217 in ² -	775 in²	1240 in ²	450 in ²	775 in²	
Reflective Material Amounts	-155 in²-	201 in²	310 in ²	201 in²	310 in ²	
Width Minimums of Reflective Material		1.38"	2"	2"	2"	
Previous Standard and Class	ANSI 107 Class 1	ANSI 107 Class 2	ANSI 107 Class 3	ANSI 207 PSV	NEW!	



TMUTCD 6D.03

- Firefighters ... engaged in emergency operations that directly expose them to <u>flame</u>, <u>fire</u>, <u>heat</u>, and/or <u>hazardous materials</u> may wear retro-reflective turnout gear ...
- Firefighters ...engaged in <u>any other types of operations</u> shall wear high-visibility safety apparel

*Exemption for PD when performing "tactical operations"... No Vest Required

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Unified Command

Communications Upon Arrival

- Notify communications center you have arrived on-scene
- Confirm geographical location, approach specifics, and any other pertinent information helpful to later-arriving units







Many Hats of Highway Incident Management Video











Incident Management Case Study (Cont.)



 Fire arrives and blocks the middle lane (Lane 2)







Implement Interagency Agreements And Contracts

- Pre-defines priorities and standards
- Pre-defines duties of participants
- Sets proper tone for responders
- Eliminates confusion at the scene
- Helps responders make tough decisions

*Develop and implement regional Memorandum of Understanding (MOU) for Incident Management



Dayton OH Video





Initiating Early Stage Traffic Control

- Determine the extent of traffic control needed
- Provide some control
- Flares and cones
- TMUTCD exemptions









Definition Of Motorist Information

In addition to receiving information from motorists on an incident, it is also our responsibility to relay information to the motorists

- Includes the dissemination of incident-related information to motorists who are:
- At the scene
- Approaching the scene
- Not yet on the road







Transition Area and Taper

 Per MUTCD 6I requirements, cones that are used at night or on highways with a posted speed limit over 45 mph have to be 28 inches tall with two reflective stripes







Advance Warning (Cont.)









Advance Warning (Cont.)

End result is to appear to the motorist as a line indicating the direction to merge



Miles Per Hour	1 st Warning Sign (A)	2 nd Warning Sign (B)	Transition Area Taper	Buffer Space	Work Space	Termination Area Taper
30	100	100	70	625	Length of Incident	100 Feet per Lane
40	350	350	125	825	Length of Incident	100 Feet per Lane
50	500	500	375	1000	Length of Incident	100 Feet per Lane
60	1500	1000	450	1300	Length of Incident	100 Feet per Lane
70	1500	1000	525	1450	Length of Incident	100 Feet per Lane











Exiting Responder Vehicle

- Watch for debris on the roadway
- Don ANSI-compliant high-visibility vests
- Exit on the non-traffic side when possible
- If moving around a corner or the "zero buffer," stop and watch for traffic






Advance Warning

The danger of working 'upstream' of your 'block'

































































On-Scene Emergency Lighting

- Too many lights at an incident scene can be distracting and can create confusion for approaching road users
- Once good traffic control is established, TMUTCD Chapter 6I recommends reducing the amount of lighting
- "Light Shedding"













Building Partnerships



Liability

- Towers liability
- Towers as of this time are not removed from total liability as a responder
- Nationally, the TRAA is working to change the laws, as well as the TTSA on the State level

Legislative Or Administrative Action

- Quick Clearance Law
- Reduced Liability Law
- Heavy Tow Truck Policy Revisions (certification and training)
- New Programs in Texas
 - Tow & Go Program Houston/Harris County
 - Florida Turnpike
 - Georgia TRIP Program
 - Austin IH 35 corridor

Education

- TRAA certification
- TTSA training program
- Industry leader trained
- Incident management trained
- TIM TOW Guide



Safety

- <u>49% of towing operators were struck and killed while working</u> on the shoulder of a major freeway
- 21% of towing operators are killed in traffic accidents
- 4% are killed while doing recovery work
- 26% are in the other category health, lightning, etc...





Incident Management Scenario 1: Load Shift With Rollover









Incident Management Scenario 1 (Cont.)



Incident Management Scenario 1 (Cont.)

What Agencies Should Respond?

Time Required To Clear Lanes of Travel?



Incident Management Scenario 1 (Cont.)



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Incident Management Scenario 2: Spilled Cargo



Incident Management Scenario 2 (Cont.)



Incident Management Scenario 2 (Cont.)



Incident Management Scenario 2 (Cont.)



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Legal Guidelines And Considerations (Cont.)



Legal Guidelines And Considerations (Cont.)

- What could have been done differently by the responders?
- What responder actions could have contributed to the outcome of this incident?
- How would the outcome of these incidents influence laws, policies, and standards?
























HOV/Managed Lane Goals

- Increase vehicle occupancy
- Increase person-movement capacity
- Cost effectiveness
- Generate public support
- Improve air quality
- Reduce fuel consumption



Types Of HOV/Managed Lanes



- A. Reversible Lane
- B. Concurrent Lane





Express Lane Goals

- Located between the non-tolled general purpose lanes
- Barrier separated
- Limited Entrances and Exits
- Managed to keep traffic moving at least 50 MPH
- A choice
- Tolled



Issues In HOV/Managed Lane Incident Management

- Crashes on main lanes impact HOV lanes
- Various responding agencies have different procedures and priorities
- Verify incident location and best routes to the scene
- Make sure to close HOV/Managed entrances when needed



Response In HOV/Managed Facilities

Many responding agencies include:

- Managed lane operations personnel
- City police
- **Emergency** personnel
- **TxDOT** courtesy patrol
- Tow trucks
- Hazmat cleanup contractors
- Other personnel



Site Management In HOV/Managed Facilities

- Contact lane operator to close facility
- Incident communicated to all necessary agencies/personnel
- Access provided to emergency personnel
- Staging of equipment/clearance encouraged
- Responders encouraged to clear scene quickly
- Traffic control provided



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Clearance In HOV/Managed Facilities

- Motorist assistance and quick removal of disabled vehicles
- Abandoned vehicles must be towed in reversible lanes
- Reopen lane before reopening entrances
- Contact lane operator to reopen entrances















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Emergency Gates (Cont.)

The gate is very heavy!





Emergency Gates Use

 If there is an accident in either the Managed Express lanes or Highway, they can be opened to let traffic flow













Spilled Load

 'Simple' vehicle fluid leaks can be dealt with by responders at the "Ops" level





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New Hazard For all Responders





Formal Declaration Of Death

- Dramatically delays removal of the deceased
- Policy exceptions make sense
- Quick removal from the scene benefits victim's families and transplant patients





Criminal Code Procedure 49.25: Death Investigation and Removal of Bodies

Medical Examiners

- Removal of Bodies
 - Section 8 When any death under circumstances set out in Section 6 shall have occurred
 - The body shall not be disturbed or removed from the position in which it is found by any person without authorization from the medical examiner or authorized deputy
 - Except for the purpose of preserving such body from loss or destruction or maintaining the flow of traffic on a highway, railroad or airport**









Incident Management Case Study: Sulfur Springs (Cont.)

It took approximately 1 hour for responders to document the 7:09 p.m. accident and remove the three victims from the left lane and median of 1-30 east. The *Texas Codes of Criminal Procedure* give the DPS the authority to remove bodies from a highway accident scene to maintain traffic flow.²⁶ The DPS did not exercise this authority and waited 30 minutes for the Hopkins County Justice of the Peace to arrive and pronounce the state of the deceased before contacting the funeral home to remove the bodies.²⁷ It took another 30 minutes for representatives of the funeral home to arrive at the scene. About 8:00 p.m., the towing service was in the process of loading the accident vehicle onto a tow truck; the second accident, which is the subject of this brief, occurred about 8:39 p.m. In a postaccident interview, TxDOT personnel indicated that, even had the second accident not occurred, I-30 probably would not have been reopened to traffic until about 9:00 p.m., almost 2 hours after the 7:09 p.m. accident.

Several regions across the nation have incorporated a clearance goal of 90 minutes or less into their TIM policies.^{28,29} In Dallas, Texas, first responders have met an objective of reducing the average clearance time for all types of incidents to 20 minutes. Studies have shown that quick clearance of an incident is the "most effective method to decrease first responder injuries,



Bus Fire - Response





Bus Fire - Gouges





Bus Fire - Tire Roadside





















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Special TIM Activity (Cont.)
















EV...<u>"Collision"</u>

- Body Damage Only
- HV Battery Damaged
- Occupant Injuries
- Entrapment/Extrication









TIM Case Study







Strategies For Improving Clearance

- Dedication and support from committed personnel
- Document agency practices that work
- Formalize successful practices into agency policy and procedure
- Learn techniques proven effective elsewhere to quickly mitigate incidents



Liability Protection: Hold Harmless Policies and Proper Documentation

Hold Harmless Policies

- Exempt responders from liability for using quick clearance methods
- DOT, police, and anyone operating under their direction

Proper Documentation

- Best defense against lawsuits and claims
- Validates that the actions taken were in the "interest of safety"
- Note actions of all personnel on scene
- Document road conditions and equipment setup



Clearance of Obstruction of Roadway: Legislative Act, State of Texas

CHAPTER § 545.3051. Removal of Personal Property from Roadway or Right-of-Way

- A transit authority or law enforcement agency may remove personal property from a roadway or right-of- way
 - If the property blocks the roadway or endangers public safety
 - May be done without the consent of the owner or carrier of the property
 - The owner or carrier is liable for the cost of removal
 - The authority or agency is not liable for any damage caused, unless the removal is carried out recklessly or in a grossly negligent manner

https://statutes.capitol.texas.gov/Docs/TN/htm/TN.545.htm#545.3051







Quick Clearance Methods

- Practice positive traffic control
- Call for tow trucks or other time sensitive resources immediately
- Use advanced collection techniques and technologies
- The more quick clearance methods are applied, the more accepted they will become

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Push Bumpers

- Should be used on all patrol vehicles
- Removal of vehicles blocking the roadway
- Liability not a problem when used properly













Quick Clearance

What is the safe, quick clearance protocol for this situation?







Quick Clearance

• <u>For true "Quick Clearance"</u>...Consider transporting patients to a Landing Zone that is OFF the highway!









Types of Licensing

- Consent Towing
- Private Property Towing (must be certified)
- Incident Management Towing (must be certified)



TDLR Regulations For Towers

- Companies must be licensed
- Must have drug testing procedures (pre-employment, random, and annual)
- Criminal background checks
- Every employee to be licensed
- Every vehicle to be annually inspected and certified
- Tow truck operators to be certified

STATE OF TEXAS Ron McCollough Incident Management Tow Operator's Licence 7401 Alma Plano, Tx. EXPIRES 12/12/2007
TEXAS DEPARTMENT OF LICENSING AND REGULATION















Recovery Technique Example

Demonstration of a COMPOUND recovery technique



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Loading

Loading demonstration once vehicle is up-righted





Loading (Cont.)

Reverse roll recovery using a conventional wrecker and catching the vehicle



Loading (Cont.)

 Operating on the shoulder of a highway without taking a travel lane and conducting recovery of this vehicle from the ditch



Loading (Cont.)

 Conducting an upright recovery off the side of a wrecker on a shoulder of highway



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Scene Clearance

 Recovery of damaged vehicles should be done by working within protected lane and shoulder area, keeping other lanes and shoulder 'OPEN' to moving traffic...



Scene Clearance (Cont.)

 This tow truck operator "required" all lanes plus all shoulders of highway to be shut down?











Alternate Means Of Marking Evidence

- Painting scenes
- Evidence markers
- More cameras and training for first responders



National Examples: Photo Measurement Saves Time

- Fatalities and felonies documented in minutes instead of hours
- Cheaper and faster since pictures are taken anyway



Alternate Means Of Analyzing Evidence: Photogrammetry



- Cones are used to mark the site
- Photogrammetry can be conducted while extrication is taking place
- Photogrammetry analysis is done back at the office

NCTCOG Photogrammetry Training Basic and Advanced Training Opportunities Basic: Five-Day Training (Includes Equipment) "Training Only" Option available Advanced: Two-Day Follow-up Training Training Offered Twice Per Year Equipment Provided to Each Officer At No Cost **Digital Camera** Special Photogrammetric Markers iWitness[™] Close-Range Photogrammetry Software If approved to attend, participating agencies agree to utilize the equipment provided or it must be returned to NCTCOG https://www.nctcog.org/trans/guality/safety/transportation-safety/traffic-incident-management/photogrammetry-training 418

Alternate Means Of Analyzing Evidence: Computer-Based Measurement Systems

- Total stations
- Lasers
- Geographic information systems (GIS)
- Photogrammetry







Termination

Termination is the final stage of incident response. It is the process of restoring traffic flow to normal or close to normal.

Major activities:

- Recovering the roadway from any damage caused by the incident
- Removing temporary traffic control devices from the incident scene
- Lifting the alternate route or detour restrictions
- Informing drivers of the return to normal traffic flow condition
- Departure of the responders from the incident scene





Termination Communication

Effective termination communication includes:

- Coordinating with responders still on-scene about incident egress
- Notifying Dispatch as lane closings/openings change
- Coordinating with Law Enforcement to restore traffic



Termination Conclusion

- Restore traffic flow at the earliest possible time
- Make a difference by making clearance a priority
- Make procedure changes and use quick clearance methods
- Push-bumpers, towing contracts, no parking areas, accident investigation sites
- When are these solutions appropriate














EMS CE, TCOLE, Evaluations, & Certificates

- Let TDI Staff Know if You're Interested in Receiving EMS CEUs
 - Take/Pass the EMS Test to Receive CEUs/CEU Certificate
- Fill out TCOLE Forms to Receive TCOLE Credits
- Please Complete Course Evaluations at the End of Class ©

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