COURSE OBJECTIVES

• Identify and Describe 3 categories of vehicle fires.
• Describe 4 major dangers of vehicle fires.
• Fire Suppression Strategy.
NASSAU COUNTY FIRE SERVICE ACADEMY

3 Types of Vehicle Fires

Passenger Compartment

Underhood

Undercarriage
VEHICLE FIRES

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4 Major Dangers of Vehicle Fires

- Plastics
- Fuel Systems
- Sealed Components
- Catalytic Converters
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SPECIFIC VEHICLE HAZARDS

• FRONT & REAR BUMPERS
  • SHOCK ABSORBING BUMPERS
• TIRES
• AIR BAGS
• GAS CHARGED STRUTS
• L.P.G. ( OZ-12 ) REFRIGERANT GAS

VEHICLE FIRES
• Propane (LPG)
• Compressed Natural Gas (CNG)
• Liquefied Natural Gas (LNG)
• Electric Vehicles
• Alcohol

VEHICLE FIRES
DANGER ZONE

Personnel must wear Personnel Protective Equipment

Clear all non-fire department personnel

VEHICLE FIRES

100 feet

100 feet
VEHICLE FIRES

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BASIC STEPS

- Size-Up
- Rescue
- Exposure Protection
- Confinement
- Extinguishment
- Overhaul
- Salvage
- Ventilation
COMMON SIZE UP FACTORS

- Location
- Occupants
- Contents
- Exposurers
- Vehicle Construction
- Water Supply

Vehicle Fires
VEHICLE FIRES

CONTENTS

- HAZ-MAT CONCERNS
  FUELS / OIL / ANTI-FREEZE
  PROPANE CYLINDERS
  GAS CANS / FERTILIZERS
  INSECTISIDES
VEHICLE FIRES

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CONTENTS

• GROCERY & HOUSEHOLD ITEMS
• COMMON DELIVERY VEHICLE’S U.P.S., FED-EX, etc..
• UNKNOWN HAZARDS IN TRANSIT
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EXPOSURERS

- ADJACENT PARKED VEHICLES
- COMMERCIAL PARKING GARAGES
- ATTACHED RESIDENTIAL GARAGES
- BELOW GRADE PARKING GARAGES

VEHICLE FIRES
VEHICLE FIRES

Front

75 feet
OFFICER’S SIZE-UP

SIDE ATTACK AT ANGLE TO VEHICLE
NEVER IN FRONT

VEHICLE FIRES
TYPICAL VEHICLE TYPES

- PASSENGER CARS
- VANS
- S.U.V.
- BUSES
- TRACTOR TRAILERS

VEHICLE FIRES
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SIZE - UP

SIZE UP IS CONTINUOUS

BE PREPARED TO CHANGE YOUR STRATEGY

VEHICLE FIRES
VEHICLE FIRES

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OCCUPANTS

• LIFE HAZARD
• PRIMARY SEARCH NECESSARY?
• TRAPPED OCCUPANTS/INJURIES
  NEED FOR RESCUE/EMS
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OTHER FACTORS

• CONSTRUCTION
  FIBERGLASS, CLASS D METALS

• WATER SUPPLY
  TANK OR HYDRANT SUPPLY

VEHICLE FIRES
FUEL TANK LOCATION

Rear Tank

Front Tank

Rear Side In The Cab

VEHICLE FIRES
CARDINAL RULE

TRY BEFORE YOU Pry!!

VEHICLE FIRES
VEHICLE FIRES

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CABLE HOOD RELEASE

Location Varies: Usually found on driver's side.

Hood Release Cable
VEHICLE FIRES

SPREADER

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BRUTE FORCE METHOD

VEHICLE FIRES
VEHICLE FIRES

PROP HOOD OPEN

VEHICLE FIRES
OPENING TRUNKS

VEHICLE FIRES
ATTACK PATTERNS

VEHICLE FIRES
PIERCING NOZZLE

VEHICLE FIRES
MAKE AN OPENING

VEHICLE FIRES
NASSAU COUNTY FIRE SERVICE ACADEMY

THROUGH THE FENDER WELL

VEHICLE FIRES
VEHICLE FIRES
“OH! IT’S ONLY A VEHICLE FIRE!”
- THINK & ACT SAFE-