

Slide 1:

- Into: Great honor to be here
- I'm Dave Young      South West Ohio
- Lt for Beavercreek TFD – 23 years career
- Capt for Wayne TFD – 3 years volunteer

Slide 2:

- Overview:
- Standards
- Machine Rescue vs Auto Extrication

Slide 3:

- Overview:
- How to get the most of your trainings
- Small – behind the FH
- Big – a lot of people and a lot of cars

Slide 4:

- NFPA Standards
- Question? What is it that holds you back from compliance?
- Money, Time, Manpower, Understanding
- The disclaimer:
- NFPA take no responsibility for anything printed or not
- The Struggle:
- Who is it that expects us to comply?
- How often does the standard change?

Slide 5:

- NFPA 1006      For the Individual:
- Rescue Technician Professional Qualifications
- General Requirements
- Minimum age...
- Min physical fitness...
- Medical care performance...
- Min Education
- Min Haz-Mat education...
- All decided by who??.....AHJ
- Job Performance Standard

- Identify the needs of...
- Size up the ...
- Manage the incident...
- Manage resources...
- Conduct a search...
- The Disciplines:
  - Ropes/ Rigging Ch 5
  - Rope Rescue Ch 6
  - Surface Water Rescue Ch 7
  - Vehicle and Machine Rescue Ch8
  - Confined Space Rescue Ch9
  - Structural Collapse Rescue Ch 10
  - Trench Rescue Ch 11
  - Subterranean Rescue Ch 12
  - Dive Rescue Ch 13
  - Wilderness Rescue Ch 14
  - Vague terms with no teeth

Slide 6:

- NFPA 1670 For the Organization:
  - Operations and Training for Technical Rescue Incidents
  - General Requirements:
    - The Disciplines:
      - Structure Collapse Ch 5
      - Rope Rescue
      - Confined Space
      - Vehicle and Machine Ch 8
      - Water
      - Wilderness and Rescue
      - Trench and Excavation

Slide 7:

NFPA 472 Haz-Mat

- Matching levels
- Get the Haz-Mat guys on the job
- Should be department wide program

Slide 8:

Auto Extrication VS Machinery

- Should they be in the same chapter?
- What falls into the auto category? Vehicles with rubber on the road.
- What goes into the machine category? Everything else! Industrial production machines, farm equipment, pop machines,.....
- Auto Philosophy is disentangle by displacement and removal
  - Overwhelming force to defeat the foe
  - Tool vs car...no match

- Machine Philosophy is the 3 D's
  - De-Energize
  - De-Pressurize
  - Dismantle                   get your tool box out

Slide 9:

Auto Extrication

- What does NFPA say?
  - Recognize/eliminate hazards
  - Access and disentangle a Pt
  - Package a Pt
  - Know how to use all of your equipment.   That's reasonable

Slide 10:

Turning Auto into Machinery

- Use what you have
- Here we are using the machine that we used to prep the cars

Slide 11:

- biggest challenge? Stabilize...need to move it? Remove the car from below.

Slide 12:

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Slide 13

- Use what you have...

Slide 14:

Trainings

- 3 to 7 students...and only One car.
- how do you get a good extrication training from One Car?
- Start at the beginning – don't pull the hydraulics out first.
  - Stabilize...what do you include in that big general word??
  - Then Stabilize on its side, put RR in, belt him in, tie him in
  - On its top
  - Up against a wall, slide a dumpster up against it

Slide 15:

Air bags...rig to pop

- When can you use a live victim in an extrication training?
- Prudent not to when cutting or flipping – fluid hazard
- What about a car on all 4's?

Slide 16:

- Another option for a one car training...

- Stabilize
- Lifting
- Cutting in different angles

Slide 17:

- Is there anything left?
- More doors, jack the dash
- Cut the trunk lid off
- Bring out all the seats...

Slide 18:

Trainings

- Large Scale 20-30 How many cars?
- For tech level class =
- Need at least 20 hours, 4 in class, 16 HOT
- Break it up into evening,
- 2 8-10 hours day works great

Slide 19:

Logistics

- Space
  - Big – Room for student parking rehab, tool staging, the pits, ready cars and spent cars.
  - Needs to handle the fluids, glass, equipment
  - The tow yard, a metal recycler,...
  - Fire House – not so good, it doesn't look good, it leaves stains
- Cars
  - For tech = 2 cars per student, maybe 1.5
- Equipment
  - Straight mast off road fork lift, 4 ton or better.
    - Others will work, but, it is quick and easy
- Facilities – rent a port-o-let
- Food - buy it or have them brown bag it, don't let' leave

Slide 20:

- Back Hoe
- Front Loader
- Who owns it?
- Who runs it? - the instructors
- How many Instructors? 1 per pit + 2
- 7-8 students max per pit

Slide 21:

- use what you have
- Imagination is your best tool...

Slides 22:

Tools

- Where do we get them? Are they in service?
- Rent?
- Borrow – invite a neighboring FD to cover your call, put a couple in the class?
- Ask a manufacture – or two
  - Tell them up front that it is a class not a commercial
- We want to compare, but we also want them using what they will have on the street.

Slide 23:

Scenarios

- There is no way to make it “realistic”, so don’t try., then
- Don’t plan around victim extrication, they will do it in 5 minutes.
- Give them a list, it should cover the basics like stabilize and hazards, then remove all victims, then 3 Doors, the roof and a dash jack.
- Or a door from each car and all three glove box doors
- Are fluids a problem? Roll the car with the fuel door up.

Slide 24:

Rescue Randy – tie him in and throw junk on top  
Tyvex Randys...

Slide 25:

We had three cars for each scenario, but no good props  
Look at the stabilization work....

Slide 26:

Three cars again

Slide 27:

Compare the cost of running your own to sending folks out

Slide 28:

Use of other props...

Plan rehab time into your schedule, and plan a rain date

I know, we work in the rain, but what training value are you getting if the students are worried about dying by lighting?

Slide 29:

Some classes have more resources than others

Slide 30:

New Car Program from Ford

Dennis E. Lark  
O.G.C. Liaison

DST Industries, Inc.  
34364 Goddard Road  
Romulus, MI 48174  
(800) 327-6174 x193  
(734) 941-5514 FAX  
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**Slide 31:**  
Check the web site for more...

For rescue awareness [www.hsi.coursehost.com](http://www.hsi.coursehost.com) >course catalog