

Pennsylvania

Voluntary Rescue Service Recognition

“A Voluntary Program for Rescue Services”

Vehicle and Machinery Rescue



**Pennsylvania Bureau of Emergency Medical Services
and
Pennsylvania Office of the State Fire Commissioner**

March 1, 2009

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Overview

The Pennsylvania Voluntary Rescue Service Recognition (VRSR) Program was prepared by stakeholders including The Office of the State Fire Commissioner, The Bureau of EMS from The Pennsylvania Department of Health, and the Rescue Task Force of the Pennsylvania Emergency Health Services Council (PEHSC).

It is the intent of this portion of the program to recognize emergency service organizations in vehicle and machinery rescue. This document not only takes into account the equipment and rescue hardware requirements of vehicle and machinery rescue, but includes minimum manpower, training and education requirements.

The Voluntary Rescue Service Recognition (VRSR) program is intended to provide guidance for staffing, training, education, and equipment for vehicle and machinery rescue. This guidance is supported by NFPA standards 1006 and 1670.

DEFINITIONS

Lock Out	a method for keeping equipment from being set in motion and endangering workers.
Rescue Service	An entity which regularly engages in the business or service of responding to persons who are entrapped, confined or otherwise not able to move freely, removing or freeing the person from imminent danger in a safe manner, and providing emergency medical care if required.
Rescue Vehicle	A vehicle which is designed or modified and equipped for rescue operations to release persons from entrapment and which is not routinely used for emergency medical care and transport of patients.
Tag Out	A method of tagging, labeling, or otherwise marking an isolation device during hazard abatement operations to prevent accidental removal of the device
Throw Bag	A water rescue system that includes 15.24m to 22.86 m (50 ft to 75 ft) of water rescue rope, an appropriately sized bag, and a closed-cell foam float.
Type 1 Engine	As defined by the National Fire Protection Association Standard 1901. Current edition when pumper was manufactured.
Vehicle and Machinery Rescue Technician	An individual who has successfully completed an approved course of instruction developed and administered by the Department and who is certified by the Department in vehicle rescue; or; who is certified by an International Fire Service Accreditation Congress (IFSAC) or National Board on Fire Services Professional Qualification (Pro Board) accredited agency as a Vehicle and Machinery Rescue Technician.

Rescue Recognition Categories

There are three (3) categories of recognition available to recognize varying levels of rescue capability. Basic Response, operations, and advanced levels are available to those providers of rescue service who currently meet or exceed the minimum requirements for rescue capabilities as defined in these rules and regulations.

Every Recognized rescue shall be able to:

1. Determine scope and magnitude of the incident
2. Conduct risk/benefit analysis (recovery vs. rescue)
3. Determine number and size of vehicle or machines affected
4. Determine number of known or potential victims
5. Assess Integrity and stability of vehicles or machines affected
6. Acquire access to the scene
7. Manage hazards, environmental factors and exposures
8. Manage traffic Hazards

Each Rescue discipline is based on a tiered rescue response to a specific operation. This response is based on three levels:

1. Basic Response Level

This level shall be able to perform the following rescue evolutions:

- a. Uncomplicated rescue from passenger vehicles (single or less than 3 vehicles)
- b. Stabilization, extrication, disentanglement and access for a variety of situations. (Such as car on all four tires, side, roof, and car on car)
- c. Mitigate crashes occurring within the highway right of way
- d. Triage and treatment of up to four (4) patients

2. Operations Response Level.

This level shall be able to perform the following rescue evolutions:

- a. All activities included in the Basic Response Level
- b. Complex rescues from commercial vehicles such as school buses, tractor-trailers, charter buses, RV's)
- c. Crashes that have left the highway right of way, difficult terrain, and complex stabilization
- d. Triage and treatment of four (4) to eight (8) patients

3. Advanced Response Level

This level shall be able to perform the following rescue evolutions:

- a. All activities included in the Basic and Operations Response levels
- b. Advanced stabilization and unusual situations such as those involving mass transit, construction equipment, and industrial equipment
- c. Crashes involving water ways, cattle chutes, or other environmental factors.
- d. Triage and treatment of more than eight (8) patients

Personnel Requirements

Basic Response Level

Must respond with a minimum of two (2) crew members with the following training and certifications represented:

1. 1 EMT or 1 First Responder (PA DOH Certified)
2. All Crew Members must have the following
 - a. Hazardous Materials Operations
 - b. Highway Incident Scene Safety (VFIS 4 hr or 16 hr Course)
 - c. Helicopter Safety Course
 - d. ICS 100
 - e. NIMS 700
 - f. Water Rescue for the First Responder – PA Fish and Boat Course
 - g. PA Basic Vehicle Rescue Technician or Vehicle and Machinery Certification (Pro-Board or IFSAC)
3. All drivers shall have EVOC or National Pro-Board or IFSAC Driver/Operator Certification for Pumper, Mobile Water or Aerial
4. All chief and line officers shall have ICS 200

Operations Response Level

Must be able to respond with a minimum of four (4) crew members with the following training and certification represented:

1. 1 EMT and 1 First Responder or higher
2. 2 Special Vehicle Rescue
3. All Crew Members must have the following
 - a. Hazardous Materials Operations
 - b. Highway Incident Safety (VFIS 4 hr or 16 hr Course)
 - c. Helicopter Safety Course
 - d. ICS 100
 - e. NIMS 700
 - f. Water Rescue for First Responder – PA Fish and Boat Course
 - g. PA Basic Vehicle Rescue Technician or Vehicle and Machinery Certification (Pro-Board or IFSAC)
 - h. Basic Rigging for Rope Rescue or National Pro-Board or IFSAC Certification at the 1006 General Requirements Level
4. All drivers shall have EVOC or National Pro-Board or IFSAC Driver/Operator Certification for Pumper, Mobile Water or Aerial
5. All chief and line officers shall have ICS 200

Advanced Response Level

Must be able to respond with a minimum of six (6) crew members with the following training and certification represented:

1. 2 EMT or higher
2. 2 Special Vehicle Rescue
3. All Crew Members must have the following
 - a. Hazardous Materials Operations
 - b. Highway Incident Safety (VFIS 4 hr or 16 hr Course)
 - c. Helicopter Safety Course
 - d. ICS 100
 - e. NIMS 700
 - f. Water Rescue for First Responder
 - g. PA Basic Vehicle Rescue Technician or Vehicle and Machinery Certification (Pro-Board or IFSAC)
 - h. Basic Rigging for Rope Rescue or National Pro-Board or IFSAC Certification at the 1006 General Requirements Level
4. All drivers shall have EVOC or National Pro-Board or IFSAC Driver/Operator Certification for Pumper, Mobile Water or Aerial
5. All chief and line officers shall have ICS 200

Minimum Training Requirements

	Basic	Operations	Advanced
Minimum number of crew on response	2	4	6
First Responder – PA Dept. of Health Certified	0	Minimum 1 or higher	0
EMT – PA Dept. of Health Certified	Minimum 1 or higher	Minimum 1 or higher	2
HazMat – Operations Level	All	All	All
Helicopter Safety Course	All	All	All
ICS -100	All	All	All
NIMS 700	All	All	All
ICS – 200 –	All Officers	All Officers	All Officers
Water Rescue for First Responder - PA Fish and Boat Course	All	All	All
Highway Incident Scene Safety – (VFIS 4 or 16 hour course)	All	All	All
Emergency Vehicle Operator Course or National Pro-Board or IFSAC Driver/Operator Certification for Pumper, Mobile Water, or Aerial Apparatus	All Drivers	All Drivers	All Drivers
Basic Vehicle Rescue Technician (PA State Certification)	All	All	All
Rescue General (CORE) Requirements Course or Pro-Board/IFSAC Certification	Option	Option	Option
Special Vehicle Rescue (PA State Certification) Bus, truck, etc	NO	Minimum 2	Minimum 4
Basic Rigging for Rope Rescue or National Pro-Board or IFSAC Certification at the 1006 General Requirements Level	0	All	All

Table 1

Table 1 is a list of required staffing and training for the levels of rescue recognition covered in the Voluntary Rescue Service Recognition Program

Response

The department's SOG's should address the following situations:

1. When the rescue service is not responding to a reported emergency call within 10 minutes of the time of dispatch, or a reasonable time thereafter, the rescue company should have a plan for alternate service (mutual aid).
2. Services certifying as Advanced must have a resource list or established dispatch protocols file with written agreements for provision on emergency basis of heavy equipment, and rescue related supplies, such as lumber, sand, etc.
3. Services certifying as Advanced must have available an air storage cascade system with fresh breathing air and a method to refill cylinders on scene. This may be supplied through mutual aid.
4. A Type 1 Engine shall respond on all rescues involving vehicle and machinery rescue.
5. Standard operating procedures consistent with the identified level of operational capability as noted in NFPA 1670 for "lock out" – "tag out to ensure that technical search and rescue operations are performed in a manner that minimizes threats to rescuers and others.

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST
ITEM DESCRIPTION **NUMBER REQUIRED**

Hand Tools	Basic	Operations	Advanced
1. Absorbent (25 lbs)	1	1	1
2. Ax, Flat Head 6lb head minimum	1	2	2
3. Ax, Short Handle 3lb head	1	1	1
4. Ax, Pick Point, 6lb head minimum	1	1	2
5. Bar, Halligan Type 30" min	1	2	2
6. Bar, Pry, Pinch Point, 50" minimum	1	1	1
7. Bar, Pry, Wrecking Type, 24"	1	1	1
8. Binoculars, min 10x50	1	1	1
9. Blanket, assorted (Wool, Aluminized, Kevlar/Nomex)	4	6	8
10. Broom, Push	1	2	2
11. Chain, 3/8" Alloy Steel, Grade 8 or 80, 6000 lbs. minimum strength, 10' Lengths, with grab hooks both ends	2	4	8
12. Chain Shorteners, rated same as chain	2	4	6
13. Winch, Hand, 1 ½ ton Chain 5' moving chain	1	1	1
14. Winch, Hand 3 ton Chain, 5' moving chain	0	1	2
15. Chock, Wheel for apparatus	2	2	2
16. Cover, Salvage, 8x8 minimum size	2	4	6
17. Cribbing, 2"x4"x18" (wood or composite)	12	12	18
18. Cribbing, 4"x4"x18" (wood or composite)	30	46	60
19. Cribbing, 4"x4"x36" (wood or composite)	0	4	6
20. Cribbing, 6"x6"x36" (wood or composite)	0	8	16
21. Cribbing, Step Chocks	1	2	2
22. Wedges, up to 4"x4" various sizes	8	12	16
23. Cutter, Bolt, General Purpose 36" minimum	1	1	1
24. Cutter, Wire/Cable, non-insulated 24" minimum	1	1	1
25. Ratchet Straps, 2"x20' minimum, 1000 lb rating	2	4	4
26. Buttress Stabilization Devices with straps, mix of long and short.	2	4	8
27. Hacksaw, Solid Frame Type with 3 spare blades	2	2	2
28. Hammer, Claw, 16oz min	1	1	1
29. Hammer, Drilling, 3lb Short Handle	1	2	2
30. Hammer, Sledge, 8lb Long Handle	1	2	2
31. Hammer, Rubber/Plastic, 16oz	1	1	1

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST

ITEM DESCRIPTION	NUMBER REQUIRED		
Hand Tools	Basic	Operations	Advanced
32. Jack, High Lift, Ratcheting Mechanical	2	2	4
33. Jack, Hydraulic, Bottle-Type 4-ton	2	2	2
34. Jack, Hydraulic, Bottle-Type 12-ton	0	2	2
35. Jack, Hydraulic, Bottle-Type 20-ton	0	2	2
36. Knife, Utility	2	2	2
37. Light, Handheld Rechargeable	2	4	6
38. Lubricant Spray	1	2	2
39. Pickets, Steel 1"x36"	0	6	12
40. Pliers, Needle Nose, 6"	1	1	1
41. Pliers, Diagonal Cutting	1	1	1
42. Pliers, Lineman's 8"	1	1	1
43. Pliers, Arc-Joint 8"	1	1	1
44. Pliers, Arc-Joint 10"	1	1	1
45. Pliers, Arc-Joint 16"	1	1	1
46. Plate, Jack, 12"x12" min	0	2	4
47. Pole, Pike 8' min	1	1	2
48. Punch, Center – manual or spring loaded	2	2	2
49. Porta Power Rescue Kit 10 ton minimum with duck bill	1	1	1
50. Screwdriver, Phillips #2x6"	1	1	1
51. Screwdriver, Phillips #3x8"	1	1	1
52. Screwdriver, Slotted, 1/4"x6"	1	1	1
53. Screwdriver, Slotted, 5/16" x 8"	1	1	1
54. Screwdriver, Slotted, 3/8"x12"	1	1	1
55. Screwdriver, Slotted, 1/4" Cabinet	1	1	1
56. Shovel, Square, Scoop Type	1	2	2
57. Shovel, Round Blade Long Handle	1	2	2
58. Snips, Metal, Compound Action 8"	1	1	1
59. Tape, Measuring, Power Return	1	1	2
60. Tool, Glass Cutting, Manual Hand Type	1	2	2
61. Wrench, Adjustable, 8"	1	1	1
62. Wrench, Adjustable, 10"	1	1	1
63. Wrench, Adjustable, 12"	1	1	1

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST

Hand Tools	Basic	Operations	Advanced
64. Wrench Set, SAE, Combination 3/16" to 3/4"	1	1	1
65. Wrench Set, Metric, Combination 8mm to 18mm	1	1	1
66. Wrench Set, 3/8" Drive, Socket, SAE	1	1	1
67. Wrench Set, 3/8" Drive, Socket Metric	1	1	1
68. Wrench Set, SAE 3/4" to 2"	0	1	1
69. Wrench Set, Metric 18mm to 30 mm	0	1	1
70. Wrench Set 1/2" Drive or greater SAE, Sockets up to 2"	0	1	1
71. Wrench Set, 1/2" Drive or greater Metric, Sockets up to 38mm	0	1	1
72. Wrench Set, Hex	1	1	1
73. Wrench, Pneumatic Impact with sockets (min 1/2" Drive)	0	1	1
Ropes and Rigging			
74. Rope Grab Devices, 1000lb minimum test strength, Must Accept Rescue Ropes Carried. (ie: prusik loops, mechanical ascenders)	4	8	12
75. Carabiner, Locking 9000lbs minimum, Large Opening	10	15	20
76. Descent Control Device, Must Accept Rescue Ropes Carried (rappel rack or figure 8)	2	4	4
77. Harness, Nylon Seat	2	4	4
78. Pulley, Swivel Side, Single 2" or Greater	2	4	6
79. Pulley, Swivel Side, Double, 2" or Greater	0	2	2
80. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 150'	2	4	4
81. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 300'	1	2	2
82. Rope, Utility, 4500lb minimum strength 3/8" 150'	2	2	2
83. Rope, Floating, 2000lb minimum strength, with throw bag for water rescue, 50' min.	2	3	4
84. Stretcher, Basket Type capable of holding long back board. (for Advanced – 2 nd stretcher may be SKED type device)	1	1	2
85. Webbing, Nylon, Tubular or Shuttle Loom, 4000lb, 20' minimum	8	12	16
Monitors			
86. Monitor, Carbon Monoxide	1	1	1
87. Monitor, Combustible Gas	0	1	1
88. Monitor, Oxygen	0	1	1
Combination Meter May Be Used			

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST

Electric	Basic	Operations	Advanced
89. Cord, Electric Extension, 100', 10 gauge, 20 amp with grounded connectors	1	2	2
90. Generator, Electric, Vehicle Mounted 110v 7.5kw, with spare fuel if appropriate	0	0	1
91. Generator, Electric, Vehicle Mounted 110v 5.0kw, with spare fuel if appropriate	1	1	0
92. Junction Box, 4 Outlet	1	2	2
93. Kit, Electrical Adapters	1	1	1
94. Light, Portable 500w minimum with Power Cables (Light Towers Acceptable for 50% of Lighting)	2	4	6
Ladders			
95. Ladder, Attic Type. 8' minimum	0	1	1
96. Ladder, Combination, Step to Straight, 8' Minimum	1	1	2
97. Ladder, Extension, 24' minimum	0	1	1
98. Ladder, Roof, 12' minimum	0	1	1
Extinguishers			
99. Extinguisher, Fire, ABC, 20lb. 10A-40B	1	1	1
100. Extinguisher, Fire Pressure Water or AFFF 2A minimum	1	1	1
Communications			
101. Radio, Portable, Compatible with Local Communications System	1	2	2
102. System, Public Address, Portable	1	1	1
Powered Tools			
103. Air Bag System, High Pressure (>100 psi)	0	3 or more bag system with 54 tons total capacity	4 or more bag system with 76 tons total capacity
104. Chisel, Air, with regulator, hoses, 2 sheet metal bits, 2 steel bits	1	1	2
105. Saw, Chain, 16" Bar, Gasoline or Electric, with Spare Chain, and Spare Fuel	1	1	2
106. Saw, Disk Type, with spare wood, masonry, and metal cutting blades	0	1	1
107. Saw, Reciprocating, with Assorted Blades	1	2	2
108. Torch, Cutting, (exothermic, oxy-acetylene, petrogen) with Supplies	0	0	1
109. Winch, Powered, Vehicle Mounted or Pinnable, 8000lb minimum	1	1	1

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST

Hydraulic Rescue System	Basic	Operations	Advanced
110. Power System/Pump	1	1	1
111. Backup Power System	0	1	1
112. Simultaneous Tool Operation	1	2	3
113. Spreaders (at least 24" spread)	1	2	2
114. Cutters	1	2	2
115. Combination Tool (May replace 1 cutter and spreader)	1	1	1
116. Ram, Short (12"-24")	0	1	1
117. Ram, Medium (20"-35")	0	1	1
118. Ram, Long (30" or greater)	0	1	1
Personal Protective Gear			
119. PFD, Type III (USCG Approved)	2	4	6
120. Helmet with Liner NFPA 1971 Compliant	1 per crew member	1 per crew member	1 per crew member
121. Coat, NFPA 1971 Compliant	1 per crew member	1 per crew member	1 per crew member
122. Pants, NFPA 1971 Compliant	1 per crew member	1 per crew member	1 per crew member
123. Boots, NFPA 1971 Compliant	1 per crew member	1 per crew member	1 per crew member
124. Eye Protection, ANSI Rated	1 per crew member	1 per crew member	1 per crew member
125. Gloves, Leather or Rescue	1 per crew member	1 per crew member	1 per crew member
126. ANSI II or Greater Reflective Highway Safety Vest	1 per crew member	1 per crew member	1 per crew member
127. Apparatus, Breathing, Self Contained, NFPA 1981 Compliant	2	4	6

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST

Medical Supplies	Basic	Operations	Advanced
128. Penlight	1	1	1
129. Blood Pressure Cuffs, Adult, Pediatric, and Child	1 Set	1 Set	1 Set
130. Stethoscope	1	1	1
131. Suction Catheters, 6 flexible and 2 rigid	1 Set	1 Set	1 Set
132. Portable Suction Unit	1	1	1
133. Pocket Mask with 1 way Valve	1	1	1
134. Nasal Cannula, Adult and Pediatric	1 each	1 each	1 each
135. High Concentration Mask Adult, Infant, and Pediatric	1 each	1 each	1 each
136. Airways, Oral, Different Sizes	6	6	6
137. Airways, Nasal, Different Sizes	5	5	5
138. Bag Valve Mask, Adult, Infant, Pediatric	1 each	1 each	1 each
139. Adhesive Tape	4	4	4
140. Bandage Shears	1	1	1
141. Occlusive Dressings, 3"x4"	4	4	4
142. Roller Gauze	6	6	6
143. Sterile Burn Sheets 4'x4'	2	2	2
144. Sterile Gauze Pads 3"x3"	25	25	25
145. Sterile Universal Dressings 10"x30"	4	4	4
146. Triangular Bandages	8	8	8
147. Semi Rigid Neck Immobilizers (small, medium, large, pediatric, or multisized)	4	4	4
148. Cold Pack, Chemical	4	4	4
149. Triage Tags	25	25	25
150. Splinting Materials (air, board, ladder, etc)	6 sizes	6 sizes	6 sizes
151. Disposal Medical Gloves, Assorted	Various	Various	Various
152. Instant Glucose 45g	1	1	1
153. Sterile OB Kit	1	1	1
154. Bulb Syringe (Separate from OB kit)	1	1	1
155. Sterile Water/Normal Saline, 2 liters	1	1	1
156. Board, Long Spine, to fit Basket Stretcher	2	4	4
157. Board, Short Spine, or Equivalent, with Accessories	1	2	2
158. Oxygen Cylinder, Min. "D" size with Regulator	1	1	2

RESCUE SERVICE RECOGNITION MINIMUM TOOL & EQUIPMENT LIST

Infection Control Supplies	Basic	Operations	Advanced
159. Clear Eye Protection	1 per crew member	1 per crew member	1 per crew member
160. Face Mask	1 per crew member	1 per crew member	1 per crew member
161. Gown/Coat	1 per crew member	1 per crew member	1 per crew member
162. Surgical Caps/Shoe Covers	1 per crew member	1 per crew member	1 per crew member
163. Medical Exam Gloves	1 per crew member	1 per crew member	1 per crew member
164. Biological Waste Container	1 box or 3 bags	1 box or 3 bags	1 box or 3 bags
Scene Safety Devices			
165. Warning Device, Traffic Safety, 12" Height (cones, triangles, etc)	6	6	6
166. Flare Fusee, 30 minutes	24	24	24

Appendix A

Course Descriptions

Course Descriptions

Basic Rigging for Rope Rescue – DOH EMS approved con-ed course #006073.

Pennsylvania State Fire Academy Course ROBR. This course is designed for personnel whose duties require training in basic rope rescue knowledge and skill, but not in rappelling. Students are introduced to rope construction, rope characteristics, rope hardware and various knots and hitches. They will participate in patient packaging and stokes litter handling exercises, and will be trained in practical haul systems and their uses.

Basic Vehicle Rescue Technician – DOH EMS approved con-ed course #006093.

Pennsylvania State Fire Academy Course BVRO. This course is presented as the third part in a three part series, or in a stand alone 48 hour course. Successful completion of this course will earn the student joint SFA/DOH certification as a Vehicle Rescue Technician. The Pennsylvania Vehicle Rescue Training curriculum places emphasis on the development of knowledge and skills to be used by rescue personnel to achieve a safe and efficient vehicle rescue operation. This course contains all materials necessary to meet the needs of fire, rescue, and ambulance services currently providing for vehicle rescue operations on our highways. While not teaching patient care, i.e. medical treatment, this program will provide those rescue personnel with no formal medical training with a strong orientation to patient related rescue.

Emergency Vehicle Driver Training Program - DOH EMS approved con-ed course #000503. Pennsylvania State Fire Academy Course EVOC. This course, developed by Volunteer Fireman's Insurance Services, provides instruction in techniques of driving emergency vehicles under all conditions. Students will learn the importance of vehicle dynamics, driver selection, condition and preparation on safe vehicle operations. The course includes practice on a driving course laid out to simulate various driving conditions. Also included is a section on service and preventative maintenance.

Hazardous Materials Operations Level 472 – DOH EMS approved con-ed course #002011. Pennsylvania State Fire Academy Course HMO. This course is designed to prepare the student to respond to hazardous materials incidents at the Operational Level in accordance with NFPA 472

Helicopter Safety Course – DOH EMS approved con-ed course.

#001636 – Helicopter Safety: The objective of this course is to teach responders how to use medical helicopters appropriately for trauma transport and how to operate safely around medical helicopters. Subjects covered will include: indications for air medical transport, air vs. ground transport decisions, communications, helicopter types, weather, helicopter operations, helicopter safety, and the establishment of safe landing zones

Highway Incident Scene Safety and Management – DOH EMS approved con-ed course #000611. Pennsylvania State Fire Academy Course HSTC. The primary target audience for this course is fire officers, firefighters, fire police, rescue, EMS and law enforcement personnel who command, respond to, or work at highway incidents. Students will learn how to adapt the same safety and traffic control principles used to establish work zones in the highway and construction maintenance industries. They will be shown ways of applying these principles, using limited equipment and staffing, to enhance safety at emergency incidents on streets and highways. Topics covered include scene assessment, risk management, regulatory issues of temporary traffic control, necessary equipment, flagging, and personnel safety procedures. Practical exercises are included that allow students to apply what they have learned to real world incident scenarios.

ICS Orientation (I-100) – DOH EMS approved con-ed course #001641. Pennsylvania State Fire Academy Course ICS 100. This course will discuss the need for a management system during major emergencies and disasters. The student will learn the five functions of the ICS, the command and staff functions, organizational structure of the ICS, common terminology used in the ICS, responsibilities of emergency responders, and the facilities used in the ICS. The student will also learn what Multi-Agency Coordination Systems are and do; as well as when Unified Command Systems are used. This course is compatible with the training requirements of the National Incident Management System (NIMS). It is designed mainly for allied professionals, (public works, transportation agency, etc) and others who might conceivably perform functions at an emergency incident.

Incident Command System: I-200, Single Resources and Initial Action Incidents, ICS 200 – DOH EMS approved con-ed course #003193. Pennsylvania State Fire Academy Course ICS 200. This course will cover the following topics: leadership and management, delegation of authority and management by objectives, functional areas and positions, briefings, organizational flexibility and transfer of command.

Water Rescue for the First Responder (1670 – Awareness Level) (2 - 2.5 hours)
Classroom course covers: scene assessment, activation of the Emergency Response System, evaluation of potential and existing water hazards, scene management, rescue vs. recovery, and personal safety measures. Meets or exceeds NFPA 1670 Awareness-level guidelines.

Appendix B

Vehicle & Machinery Rescue Roster

APPENDIX B

Vehicle and Machinery Rescue Roster Instructions

1. The attached roster is a 3 page document with training required by each team member listed on the 3 pages
2. List the team member's name on each page on the corresponding line.
3. For training with certification numbers, list the certification number.
4. For training with completion dates, list the date completed.
5. Guide to training abbreviations:
 - a. EVOC – Date Completed
 - b. PA License Number – PA Driver's license number
 - c. EMS Level
 - i. A – First Responder
 - ii. B – Emergency Medical Technician (EMT)
 - iii. C – Paramedic
 - iv. D – Pre-Hospital RN (PHRN)
 - v. E – Health Care Professional (HP)
 - d. Haz Mat Level
 - i. HMO – Hazardous Materials Operations
 - ii. HMT – Hazardous Materials Technician
 - e. ICS Training - Date Completed or N/A
 - f. Helicopter Awareness – Date Completed
 - g. Highway Incident Scene Safety – Date Completed
 - h. Water Rescue for the First Responder – Date Completed
 - i. Water Rescue Emergency Response – Date Completed
 - j. NFPA 1006 Core Requirements – Date Completed
 - k. NFPA 1006 Vehicle And Machinery – Date Completed
 - l. PA BVRT – PA Basic Vehicle Rescue Technician - Date Completed
 - m. PA Special Vehicle Rescue – Date Completed
6. Document may be filled out in writing, or an electronic copy may be submitted if accompanied by a hard copy

VRSR VEHICLE AND MACHINERY ROSTER

Personnel Information			Drivers		EMS Training			Haz Mat	
Last Name	First Name	Middle	EVOC	PA License Number	EMS Level	Certification Number	Expiration Date	Haz Mat Level	Haz Mat Date

Organization: _____

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VRSR VEHICLE AND MACHINERY ROSTER

	ICS Training					General Training		
Last Name	ICS 700	ICS 100	ICS 200	ICS 300	ICS 400	Helicopter Awareness	Highway Incident Scene Safety	Water Rescue First Responder

Organization: _____

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VRSR VEHICLE AND MACHINERY ROSTER

[illegible]

Organization:_____

Page ____ of ____

APPENDIX C

Act 168 Form

PENNSYLVANIA VOLUNTARY FIRE SERVICE
Act 168 Form

Act 168 of 2006 amended Title 18 (Crimes and Offenses) of the Pennsylvania Consolidated

Statutes, Section 2, subsection (h) (1) Arson and related offenses reads:

“A person convicted of violating this section or any similar offense under Federal or State law shall be prohibited from serving as a firefighter in this Commonwealth and shall be prohibited from being certified as a firefighter under Section 4 of the Act of November 13, 1995 (P.L. 604, No.61), known as the State Fire Commissioner Act.”

All individuals making application for certification testing must provide documentation of a background check. Proof of a non-conviction MUST consist of *either* of the following:

- 1. An official criminal history record check obtained pursuant to Chapter 91 (relating to criminal history record information) indicating no arson convictions.**

OR

- 2. By dating and signing of the following statement by the person swearing to the following:**

“I have never been convicted of an offense that constitutes the crime of “arson and related offenses” under 18 Pa.C.S 3301 or any similar offense under any Federal or State law. I hereby certify that the statements contained herein are true and correct to the best of my knowledge and belief. I understand that if I knowingly make any false statement herein, I am subject to penalties prescribed by law, including, but not limited to, a fine of at least \$1,000.00”

Signature of Responder

Name of Responder (please print or type)

Date

APPENDIX D

Application

APPLICATION FOR VOLUNTARY RESCUE SERVICE RECOGNITION

1. SERVICE IDENTIFICATION:

BUSINESS/CORPORATE NAME OF RESCUE SERVICE

IDENTIFYING NAME OF RESCUE SERVICE

PHYSICAL LOCATION OF RESCUE SERVICE HEADQUARTERS *(must be supplied)*:

(STREET, RD, ROUTE, ETC.)

CITY

STATE

ZIP CODE + 4

MAILING ADDRESS OF RESCUE SERVICE: *(must be supplied)*:

(STREET, P.O BOX, R.D., ROUTE, ETC.)

CITY

STATE

ZIP CODE +4

DAYLIGHT CONTACT PERSON: _____

BUSINESS TELEPHONE: (_____) _____

Physical address locations of any substations, other than headquarters, where vehicles are stationed full-time (if applicable):

a. _____

(STREET, R.D., ROUTE, ETC.)

CITY

STATE

ZIP CODE +4

b. _____

(STREET, R.D., ROUTE, ETC.)

CITY

STATE

ZIP CODE +4

Principal Official: *(Administrative)*

(PLEASE PRINT)

TITLE

TELEPHONE

2. SERVICE CLASSIFICATION: (check all that apply)

Type of Organization

- ☐ INDUSTRY
- ☐ NON-PROFIT
- ☐ FOR PROFIT
- ☐ CAREER
- ☐ VOLUNTEER

- ☐ FIRE SERVICE
- ☐ EMS
- ☐ POLICE
- ☐ GOVERNMENT
- ☐ OTHER _____

ARE YOU QRS AFFILIATED AND/OR RECOGNIZED? ☐ YES ☐ NO

3. TYPE AND LEVEL OF SERVICE:

- ☐ Vehicle and Machinery ☐ Basic ☐ Operations ☐ Advanced
- ☐ Swiftwater ☐ Type 1a ☐ Type 2a ☐ Type 3a ☐ Type 4a ☐ Flood Evacuation

Primary Service Areas

- 1. _____ 4. _____
- 2. _____ 5. _____
- 3. _____ 6. _____

4. Dispatch Procedures:

- b. Method of Dispatch For Emergency Calls
 - ☐ Providers Headquarters
 - ☐ County 9-1-1 Center
 - ☐ Municipal 9-1-1 Center
 - ☐ Police Department
 - ☐ Other (explain)

5. VERIFICATION OF INFORMATION:

I, _____ have reviewed this application and all of the information
(Name of Principal Official)
contained herein, or submitted separately in support of the application, and verify that the information is accurate and complete.

Signature of Principal Official

Date

NOTE: 18 Pa. C.S. Section 4904 provides that it shall be a crime to make written, false statement, or to submit any document which is false, to a public servant and, upon conviction, shall be punishable by imprisonment, the maximum of which is not more than two (2) years, and a fine not to exceed \$5,000.

APPENDIX E

Basic Level Checklists

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

Service _____

Date _____

ITEM DESCRIPTION

NUMBER REQUIRED

Hand Tools	Required	Present	Deficient
1. Absorbent (25 lbs)	1		
2. Ax, Flat Head 6lb head minimum	1		
3. Ax, Short Handle 3lb head	1		
4. Ax, Pick Point, 6lb head minimum	1		
5. Bar, Halligan Type 30" min	1		
6. Bar, Pry, Pinch Point, 50" minimum	1		
7. Bar, Pry, Wrecking Type, 24"	1		
8. Binoculars, min 10x50	1		
9. Blanket, assorted (Wool, Aluminized, Kevlar/Nomex)	4		
10. Broom, Push	1		
11. Chain, 3/8" Alloy Steel, Grade 8 or 80, 6000 lbs. minimum strength, 10' Lengths, with grab hooks both ends	2		
12. Chain Shorteners, rated same as chain	2		
13. Winch, Hand, 1 ½ ton Chain 5' moving chain	1		
14. Winch, Hand 3 ton Chain, 5' moving chain	0		
15. Chock, Wheel for apparatus	2		
16. Cover, Salvage, 8x8 minimum size	2		
17. Cribbing, 2"x4"x18" (wood or composite)	12		
18. Cribbing, 4"x4"x18" (wood or composite)	30		
19. Cribbing, 4"x4"x36" (wood or composite)	0		
20. Cribbing, 6"x6"x36" (wood or composite)	0		
21. Cribbing, Step Chocks	1		
22. Wedges, up to 4"x4" various sizes	8		
23. Cutter, Bolt, General Purpose 36" minimum	1		
24. Cutter, Wire/Cable, non-insulated 24" minimum	1		
25. Ratchet Straps, 2"x20' minimum, 1000 lb rating	2		
26. Butress Stabilization Devices with straps, mix of long and short.	2		
27. Hacksaw, Solid Frame Type with 3 spare blades	2		
28. Hammer, Claw, 16oz min	1		
29. Hammer, Drilling, 3lb Short Handle	1		
30. Hammer, Sledge, 8lb Long Handle	1		
31. Hammer, Rubber/Plastic, 16oz	1		

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

ITEM DESCRIPTION	NUMBER REQUIRED		
Hand Tools	Required	Present	Deficient
32. Jack, High Lift, Ratcheting Mechanical	2		
33. Jack, Hydraulic, Bottle-Type 4-ton	2		
34. Jack, Hydraulic, Bottle-Type 12-ton	0		
35. Jack, Hydraulic, Bottle-Type 20-ton	0		
36. Knife, Utility	2		
37. Light, Handheld Rechargeable	2		
38. Lubricant Spray	1		
39. Pickets, Steel 1"x36"	0		
40. Pliers, Needle Nose, 6"	1		
41. Pliers, Diagonal Cutting	1		
42. Pliers, Lineman's 8"	1		
43. Pliers, Arc-Joint 8"	1		
44. Pliers, Arc-Joint 10"	1		
45. Pliers, Arc-Joint 16"	1		
46. Plate, Jack, 12"x12" min	0		
47. Pole, Pike 8' min	1		
48. Punch, Center – manual or spring loaded	2		
49. Porta Power Rescue Kit 10 ton minimum with duck bill	1		
50. Screwdriver, Phillips #2x6"	1		
51. Screwdriver, Phillips #3x8"	1		
52. Screwdriver, Slotted, 1/4"x6"	1		
53. Screwdriver, Slotted, 5/16" x 8"	1		
54. Screwdriver, Slotted, 3/8"x12"	1		
55. Screwdriver, Slotted, 1/4" Cabinet	1		
56. Shovel, Square, Scoop Type	1		
57. Shovel, Round Blade Long Handle	1		
58. Snips, Metal, Compound Action 8"	1		
59. Tape, Measuring, Power Return	1		
60. Tool, Glass Cutting, Manual Hand Type	1		
61. Wrench, Adjustable, 8"	1		
62. Wrench, Adjustable, 10"	1		
63. Wrench, Adjustable, 12"	1		

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

Hand Tools	Required	Present	Deficient
64. Wrench Set, SAE, Combination 3/16" to 3/4"	1		
65. Wrench Set, Metric, Combination 8mm to 18mm	1		
66. Wrench Set, 3/8" Drive, Socket, SAE	1		
67. Wrench Set, 3/8" Drive, Socket Metric	1		
68. Wrench Set, SAE 3/4" to 2"	0		
69. Wrench Set, Metric 18mm to 30 mm	0		
70. Wrench Set 1/2" Drive or greater SAE, Sockets up to 2"	0		
71. Wrench Set, 1/2" Drive or greater Metric, Sockets up to 38mm	0		
72. Wrench Set, Hex	1		
73. Wrench, Pneumatic Impact with sockets (min 1/2" Drive)	0		
Ropes and Rigging			
74. Rope Grab Devices, 1000lb minimum test strength, Must Accept Rescue Ropes Carried. (ie: prusik loops, mechanical ascenders)	4		
75. Carabiner, Locking 9000lbs minimum, Large Opening	10		
76. Descent Control Device, Must Accept Rescue Ropes Carried (rappel rack or figure 8)	2		
77. Harness, Nylon Seat	2		
78. Pulley, Swivel Side, Single 2" or Greater	2		
79. Pulley, Swivel Side, Double, 2" or Greater	0		
80. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 150'	2		
81. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 300'	1		
82. Rope, Utility, 4500lb minimum strength 3/8" 150'	2		
83. Rope, Floating, 2000lb minimum strength, with throw bag for water rescue, 50' min.	2		
84. Stretcher, Basket Type capable of holding long back board. (for Advanced – 2 nd stretcher may be SKED type device)	1		
85. Webbing, Nylon, Tubular or Shuttle Loom, 4000lb, 20' minimum	8		
Monitors			
86. Monitor, Carbon Monoxide	1		
87. Monitor, Combustible Gas	0		
88. Monitor, Oxygen	0		
Combination Meter May Be Used			

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

Electric	Required	Present	Deficient
89. Cord, Electric Extension, 100', 10 gauge, 20 amp with grounded connectors	1		
90. Generator, Electric, Vehicle Mounted 110v 7.5kw, with spare fuel if appropriate	0		
91. Generator, Electric, Vehicle Mounted 110v 5.0kw, with spare fuel if appropriate	1		
92. Junction Box, 4 Outlet	1		
93. Kit, Electrical Adapters	1		
94. Light, Portable 500w minimum with Power Cables (Light Towers Acceptable for 50% of Lighting)	2		
Ladders			
95. Ladder, Attic Type. 8' minimum	0		
96. Ladder, Combination, Step to Straight, 8' Minimum	1		
97. Ladder, Extension, 24' minimum	0		
98. Ladder, Roof, 12' minimum	0		
Extinguishers			
99. Extinguisher, Fire, ABC, 20lb. 10A-40B	1		
100. Extinguisher, Fire Pressure Water or AFFF 2A minimum	1		
Communications			
101. Radio, Portable, Compatible with Local Communications System	1		
102. System, Public Address, Portable	1		
Powered Tools			
103. Air Bag System, High Pressure (>100 psi)	0		
104. Chisel, Air, with regulator, hoses, 2 sheet metal bits, 2 steel bits	1		
105. Saw, Chain, 16" Bar, Gasoline or Electric, with Spare Chain, and Spare Fuel	1		
106. Saw, Disk Type, with spare wood, masonry, and metal cutting blades	0		
107. Saw, Reciprocating, with Assorted Blades	1		
108. Torch, Cutting, (exothermic, oxy-acetylene, petrogen) with Supplies	0		
109. Winch, Powered, Vehicle Mounted or Pinnable, 8000lb minimum	1		

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

Hydraulic Rescue System		Required	Present	Deficient
110.	Power System/Pump	1		
111.	Backup Power System	0		
112.	Simultaneous Tool Operation	1		
113.	Spreaders (at least 24" spread)	1		
114.	Cutters	1		
115.	Combination Tool (May replace 1 cutter and spreader)	1		
116.	Ram, Short (12"-24")	0		
117.	Ram, Medium (20"-35")	0		
118.	Ram, Long (30" or greater)	0		
Personal Protective Gear				
119.	PFD, Type III (USCG Approved)	2		
120.	Helmet with Liner NFPA 1971 Compliant	1 per crew member		
121.	Coat, NFPA 1971 Compliant	1 per crew member		
122.	Pants, NFPA 1971 Compliant	1 per crew member		
123.	Boots, NFPA 1971 Compliant	1 per crew member		
124.	Eye Protection, ANSI Rated	1 per crew member		
125.	Gloves, Leather or Rescue	1 per crew member		
126.	ANSI II or Greater Reflective Highway Safety Vest	1 per crew member		
127.	Apparatus, Breathing, Self Contained, NFPA 1981 Compliant	2		

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

Medical Supplies		Required	Present	Deficient
128.	Penlight	1		
129.	Blood Pressure Cuffs, Adult, Pediatric, and Child	1 Set		
130.	Stethoscope	1		
131.	Suction Catheters, 6 flexible and 2 rigid	1 Set		
132.	Portable Suction Unit	1		
133.	Pocket Mask with 1 way Valve	1		
134.	Nasal Cannula, Adult and Pediatric	1 each		
135.	High Concentration Mask Adult, Infant, and Pediatric	1 each		
136.	Airways, Oral, Different Sizes	6		
137.	Airways, Nasal, Different Sizes	5		
138.	Bag Valve Mask, Adult, Infant, Pediatric	1 each		
139.	Adhesive Tape	4		
140.	Bandage Shears	1		
141.	Occlusive Dressings, 3"x4"	4		
142.	Roller Gauze	6		
143.	Sterile Burn Sheets 4'x4'	2		
144.	Sterile Gauze Pads 3"x3"	25		
145.	Sterile Universal Dressings 10"x30"	4		
146.	Triangular Bandages	8		
147.	Semi Rigid Neck Immobilizers (small, medium, large, pediatric, or multisized)	4		
148.	Cold Pack, Chemical	4		
149.	Triage Tags	25		
150.	Splinting Materials (air, board, ladder, etc)	6 sizes		
151.	Disposal Medical Gloves, Assorted	Various		
152.	Instant Glucose 45g	1		
153.	Sterile OB Kit	1		
154.	Bulb Syringe (Separate from OB kit)	1		
155.	Sterile Water/Normal Saline, 2 liters	1		
156.	Board, Long Spine, to fit Basket Stretcher	2		
157.	Board, Short Spine, or Equivalent, with Accessories	1		
158.	Oxygen Cylinder, Min. "D" size with Regulator	1		

RESCUE SERVICE RECOGNITION BASIC CHECKLIST

Infection Control Supplies		Required	Present	Deficient
159.	Clear Eye Protection	1 per crew member		
160.	Face Mask	1 per crew member		
161.	Gown/Coat	1 per crew member		
162.	Surgical Caps/Shoe Covers	1 per crew member		
163.	Medical Exam Gloves	1 per crew member		
164.	Biological Waste Container	1 box or 3 bags		
Scene Safety Devices				
165.	Warning Device, Traffic Safety, 12" Height (cones, triangles, etc)	6		
166.	Flare Fusee, 30 minutes	24		

APPENDIX F

Operations Level Checklists

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

Service _____

Date _____

ITEM DESCRIPTION

NUMBER REQUIRED

Hand Tools	Required	Present	Deficient
1. Absorbent (25 lbs)	1		
2. Ax, Flat Head 6lb head minimum	2		
3. Ax, Short Handle 3lb head	1		
4. Ax, Pick Point, 6lb head minimum	1		
5. Bar, Halligan Type 30" min	2		
6. Bar, Pry, Pinch Point, 50" minimum	1		
7. Bar, Pry, Wrecking Type, 24"	1		
8. Binoculars, min 10x50	1		
9. Blanket, assorted (Wool, Aluminized, Kevlar/Nomex)	6		
10. Broom, Push	2		
11. Chain, 3/8" Alloy Steel, Grade 8 or 80, 6000 lbs. minimum strength, 10' Lengths, with grab hooks both ends	4		
12. Chain Shorteners, rated same as chain	4		
13. Winch, Hand, 1 ½ ton Chain 5' moving chain	1		
14. Winch, Hand 3 ton Chain, 5' moving chain	1		
15. Chock, Wheel for apparatus	2		
16. Cover, Salvage, 8x8 minimum size	4		
17. Cribbing, 2"x4"x18" (wood or composite)	12		
18. Cribbing, 4"x4"x18" (wood or composite)	46		
19. Cribbing, 4"x4"x36" (wood or composite)	4		
20. Cribbing, 6"x6"x36" (wood or composite)	8		
21. Cribbing, Step Chocks	2		
22. Wedges, up to 4"x4" various sizes	12		
23. Cutter, Bolt, General Purpose 36" minimum	1		
24. Cutter, Wire/Cable, non-insulated 24" minimum	1		
25. Ratchet Straps, 2"x20' minimum, 1000 lb rating	4		
26. Buttress Stabilization Devices with straps, mix of long and short.	4		
27. Hacksaw, Solid Frame Type with 3 spare blades	2		
28. Hammer, Claw, 16oz min	1		
29. Hammer, Drilling, 3lb Short Handle	2		
30. Hammer, Sledge, 8lb Long Handle	2		
31. Hammer, Rubber/Plastic, 16oz	1		

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

ITEM DESCRIPTION	NUMBER REQUIRED		
Hand Tools	Required	Present	Deficient
32. Jack, High Lift, Ratcheting Mechanical	2		
33. Jack, Hydraulic, Bottle-Type 4-ton	2		
34. Jack, Hydraulic, Bottle-Type 12-ton	2		
35. Jack, Hydraulic, Bottle-Type 20-ton	2		
36. Knife, Utility	2		
37. Light, Handheld Rechargeable	4		
38. Lubricant Spray	2		
39. Pickets, Steel 1"x36"	6		
40. Pliers, Needle Nose, 6"	1		
41. Pliers, Diagonal Cutting	1		
42. Pliers, Lineman's 8"	1		
43. Pliers, Arc-Joint 8"	1		
44. Pliers, Arc-Joint 10"	1		
45. Pliers, Arc-Joint 16"	1		
46. Plate, Jack, 12"x12" min	2		
47. Pole, Pike 8' min	1		
48. Punch, Center – manual or spring loaded	2		
49. Porta Power Rescue Kit 10 ton minimum with duck bill	1		
50. Screwdriver, Phillips #2x6"	1		
51. Screwdriver, Phillips #3x8"	1		
52. Screwdriver, Slotted, 1/4"x6"	1		
53. Screwdriver, Slotted, 5/16" x 8"	1		
54. Screwdriver, Slotted, 3/8"x12"	1		
55. Screwdriver, Slotted, 1/4" Cabinet	1		
56. Shovel, Square, Scoop Type	2		
57. Shovel, Round Blade Long Handle	2		
58. Snips, Metal, Compound Action 8"	1		
59. Tape, Measuring, Power Return	1		
60. Tool, Glass Cutting, Manual Hand Type	2		
61. Wrench, Adjustable, 8"	1		
62. Wrench, Adjustable, 10"	1		
63. Wrench, Adjustable, 12"	1		

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

Hand Tools	Required	Present	Deficient
64. Wrench Set, SAE, Combination 3/16" to 3/4"	1		
65. Wrench Set, Metric, Combination 8mm to 18mm	1		
66. Wrench Set, 3/8" Drive, Socket, SAE	1		
67. Wrench Set, 3/8" Drive, Socket Metric	1		
68. Wrench Set, SAE 3/4" to 2"	1		
69. Wrench Set, Metric 18mm to 30 mm	1		
70. Wrench Set 1/2" Drive or greater SAE, Sockets up to 2"	1		
71. Wrench Set, 1/2" Drive or greater Metric, Sockets up to 38mm	1		
72. Wrench Set, Hex	1		
73. Wrench, Pneumatic Impact with sockets (min 1/2" Drive)	1		
Ropes and Rigging			
74. Rope Grab Devices, 1000lb minimum test strength, Must Accept Rescue Ropes Carried. (ie: prusik loops, mechanical ascenders)	8		
75. Carabiner, Locking 9000lbs minimum, Large Opening	15		
76. Descent Control Device, Must Accept Rescue Ropes Carried (rappel rack or figure 8)	4		
77. Harness, Nylon Seat	4		
78. Pulley, Swivel Side, Single 2" or Greater	4		
79. Pulley, Swivel Side, Double, 2" or Greater	2		
80. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 150'	4		
81. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 300'	2		
82. Rope, Utility, 4500lb minimum strength 3/8" 150'	2		
83. Rope, Floating, 2000lb minimum strength, with throw bag for water rescue, 50' min.	3		
84. Stretcher, Basket Type capable of holding long back board. (for Advanced – 2 nd stretcher may be SKED type device)	1		
85. Webbing, Nylon, Tubular or Shuttle Loom, 4000lb, 20' minimum	12		
Monitors			
86. Monitor, Carbon Monoxide	1		
87. Monitor, Combustible Gas	1		
88. Monitor, Oxygen	1		
Combination Meter May Be Used			

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

Electric	Required	Present	Deficient
89. Cord, Electric Extension, 100', 10 gauge, 20 amp with grounded connectors	2		
90. Generator, Electric, Vehicle Mounted 110v 7.5kw, with spare fuel if appropriate	0		
91. Generator, Electric, Vehicle Mounted 110v 5.0kw, with spare fuel if appropriate	1		
92. Junction Box, 4 Outlet	2		
93. Kit, Electrical Adapters	1		
94. Light, Portable 500w minimum with Power Cables (Light Towers Acceptable for 50% of Lighting)	4		
Ladders			
95. Ladder, Attic Type. 8' minimum	1		
96. Ladder, Combination, Step to Straight, 8' Minimum	1		
97. Ladder, Extension, 24' minimum	1		
98. Ladder, Roof, 12' minimum	1		
Extinguishers			
99. Extinguisher, Fire, ABC, 20lb. 10A-40B	1		
100. Extinguisher, Fire Pressure Water or AFFF 2A minimum	1		
Communications			
101. Radio, Portable, Compatible with Local Communications System	2		
102. System, Public Address, Portable	1		
Powered Tools			
103. Air Bag System, High Pressure (>100 psi)	3 or more bag system with 54 tons total capacity		
104. Chisel, Air, with regulator, hoses, 2 sheet metal bits, 2 steel bits	1		
105. Saw, Chain, 16" Bar, Gasoline or Electric, with Spare Chain, and Spare Fuel	1		
106. Saw, Disk Type, with spare wood, masonry, and metal cutting blades	1		
107. Saw, Reciprocating, with Assorted Blades	2		
108. Torch, Cutting, (exothermic, oxy-acetylene, petrogen) with Supplies	0		
109. Winch, Powered, Vehicle Mounted or Pinnable, 8000lb minimum	1		

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

Hydraulic Rescue System		Required	Present	Deficient
110.	Power System/Pump	1		
111.	Backup Power System	1		
112.	Simultaneous Tool Operation	2		
113.	Spreaders (at least 24" spread)	2		
114.	Cutters	2		
115.	Combination Tool (May replace 1 cutter and spreader)	1		
116.	Ram, Short (12"-24")	1		
117.	Ram, Medium (20"-35")	1		
118.	Ram, Long (30" or greater)	1		
Personal Protective Gear				
119.	PFD, Type III (USCG Approved)	4		
120.	Helmet with Liner NFPA 1971 Compliant	1 per crew member		
121.	Coat, NFPA 1971 Compliant	1 per crew member		
122.	Pants, NFPA 1971 Compliant	1 per crew member		
123.	Boots, NFPA 1971 Compliant	1 per crew member		
124.	Eye Protection, ANSI Rated	1 per crew member		
125.	Gloves, Leather or Rescue	1 per crew member		
126.	ANSI II or Greater Reflective Highway Safety Vest	1 per crew member		
127.	Apparatus, Breathing, Self Contained, NFPA 1981 Compliant	4		

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

Medical Supplies		Required	Present	Deficient
128.	Penlight	1		
129.	Blood Pressure Cuffs, Adult, Pediatric, and Child	1 Set		
130.	Stethoscope	1		
131.	Suction Catheters, 6 flexible and 2 rigid	1 Set		
132.	Portable Suction Unit	1		
133.	Pocket Mask with 1 way Valve	1		
134.	Nasal Cannula, Adult and Pediatric	1 each		
135.	High Concentration Mask Adult, Infant, and Pediatric	1 each		
136.	Airways, Oral, Different Sizes	6		
137.	Airways, Nasal, Different Sizes	5		
138.	Bag Valve Mask, Adult, Infant, Pediatric	1 each		
139.	Adhesive Tape	4		
140.	Bandage Shears	1		
141.	Occlusive Dressings, 3"x4"	4		
142.	Roller Gauze	6		
143.	Sterile Burn Sheets 4'x4'	2		
144.	Sterile Gauze Pads 3"x3"	25		
145.	Sterile Universal Dressings 10"x30"	4		
146.	Triangular Bandages	8		
147.	Semi Rigid Neck Immobilizers (small, medium, large, pediatric, or multisized)	4		
148.	Cold Pack, Chemical	4		
149.	Triage Tags	25		
150.	Splinting Materials (air, board, ladder, etc)	6 sizes		
151.	Disposal Medical Gloves, Assorted	Various		
152.	Instant Glucose 45g	1		
153.	Sterile OB Kit	1		
154.	Bulb Syringe (Separate from OB kit)	1		
155.	Sterile Water/Normal Saline, 2 liters	1		
156.	Board, Long Spine, to fit Basket Stretcher	4		
157.	Board, Short Spine, or Equivalent, with Accessories	2		
158.	Oxygen Cylinder, Min. "D" size with Regulator	1		

RESCUE SERVICE RECOGNITION OPERATIONS CHECKLIST

Infection Control Supplies		Required	Present	Deficient
159.	Clear Eye Protection	1 per crew member		
160.	Face Mask	1 per crew member		
161.	Gown/Coat	1 per crew member		
162.	Surgical Caps/Shoe Covers	1 per crew member		
163.	Medical Exam Gloves	1 per crew member		
164.	Biological Waste Container	1 box or 3 bags		
Scene Safety Devices				
165.	Warning Device, Traffic Safety, 12" Height (cones, triangles, etc)	6		
166.	Flare Fusee, 30 minutes	24		

APPENDIX G

Advanced Level Checklists

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

Service _____

Date _____

ITEM DESCRIPTION

NUMBER REQUIRED

Hand Tools	Required	Present	Deficient
1. Absorbent (25 lbs)	1		
2. Ax, Flat Head 6lb head minimum	2		
3. Ax, Short Handle 3lb head	1		
4. Ax, Pick Point, 6lb head minimum	2		
5. Bar, Halligan Type 30" min	2		
6. Bar, Pry, Pinch Point, 50" minimum	1		
7. Bar, Pry, Wrecking Type, 24"	1		
8. Binoculars, min 10x50	1		
9. Blanket, assorted (Wool, Aluminized, Kevlar/Nomex)	8		
10. Broom, Push	2		
11. Chain, 3/8" Alloy Steel, Grade 8 or 80, 6000 lbs. minimum strength, 10' Lengths, with grab hooks both ends	8		
12. Chain Shorteners, rated same as chain	6		
13. Winch, Hand, 1 ½ ton Chain 5' moving chain	1		
14. Winch, Hand 3 ton Chain, 5' moving chain	2		
15. Chock, Wheel for apparatus	2		
16. Cover, Salvage, 8x8 minimum size	6		
17. Cribbing, 2"x4"x18" (wood or composite)	18		
18. Cribbing, 4"x4"x18" (wood or composite)	60		
19. Cribbing, 4"x4"x36" (wood or composite)	6		
20. Cribbing, 6"x6"x36" (wood or composite)	16		
21. Cribbing, Step Chocks	2		
22. Wedges, up to 4"x4" various sizes	16		
23. Cutter, Bolt, General Purpose 36" minimum	1		
24. Cutter, Wire/Cable, non-insulated 24" minimum	1		
25. Ratchet Straps, 2"x20' minimum, 1000 lb rating	4		
26. Buttress Stabilization Devices with straps, mix of long and short.	8		
27. Hacksaw, Solid Frame Type with 3 spare blades	2		
28. Hammer, Claw, 16oz min	1		
29. Hammer, Drilling, 3lb Short Handle	2		
30. Hammer, Sledge, 8lb Long Handle	2		
31. Hammer, Rubber/Plastic, 16oz	1		

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

ITEM DESCRIPTION	NUMBER REQUIRED		
Hand Tools	Required	Present	Deficient
32. Jack, High Lift, Ratcheting Mechanical	4		
33. Jack, Hydraulic, Bottle-Type 4-ton	2		
34. Jack, Hydraulic, Bottle-Type 12-ton	2		
35. Jack, Hydraulic, Bottle-Type 20-ton	2		
36. Knife, Utility	2		
37. Light, Handheld Rechargeable	6		
38. Lubricant Spray	2		
39. Pickets, Steel 1"x36"	12		
40. Pliers, Needle Nose, 6"	1		
41. Pliers, Diagonal Cutting	1		
42. Pliers, Lineman's 8"	1		
43. Pliers, Arc-Joint 8"	1		
44. Pliers, Arc-Joint 10"	1		
45. Pliers, Arc-Joint 16"	1		
46. Plate, Jack, 12"x12" min	4		
47. Pole, Pike 8' min	2		
48. Punch, Center – manual or spring loaded	2		
49. Porta Power Rescue Kit 10 ton minimum with duck bill	1		
50. Screwdriver, Phillips #2x6"	1		
51. Screwdriver, Phillips #3x8"	1		
52. Screwdriver, Slotted, 1/4"x6"	1		
53. Screwdriver, Slotted, 5/16" x 8"	1		
54. Screwdriver, Slotted, 3/8"x12"	1		
55. Screwdriver, Slotted, 1/4" Cabinet	1		
56. Shovel, Square, Scoop Type	2		
57. Shovel, Round Blade Long Handle	2		
58. Snips, Metal, Compound Action 8"	1		
59. Tape, Measuring, Power Return	2		
60. Tool, Glass Cutting, Manual Hand Type	2		
61. Wrench, Adjustable, 8"	1		
62. Wrench, Adjustable, 10"	1		
63. Wrench, Adjustable, 12"	1		

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

Hand Tools	Required	Present	Deficient
64. Wrench Set, SAE, Combination 3/16" to 3/4"	1		
65. Wrench Set, Metric, Combination 8mm to 18mm	1		
66. Wrench Set, 3/8" Drive, Socket, SAE	1		
67. Wrench Set, 3/8" Drive, Socket Metric	1		
68. Wrench Set, SAE 3/4" to 2"	1		
69. Wrench Set, Metric 18mm to 30 mm	1		
70. Wrench Set 1/2" Drive or greater SAE, Sockets up to 2"	1		
71. Wrench Set, 1/2" Drive or greater Metric, Sockets up to 38mm	1		
72. Wrench Set, Hex	1		
73. Wrench, Pneumatic Impact with sockets (min 1/2" Drive)	1		
Ropes and Rigging			
74. Rope Grab Devices, 1000lb minimum test strength, Must Accept Rescue Ropes Carried. (ie: prusik loops, mechanical ascenders)	12		
75. Carabiner, Locking 9000lbs minimum, Large Opening	20		
76. Descent Control Device, Must Accept Rescue Ropes Carried (rappel rack or figure 8)	4		
77. Harness, Nylon Seat	4		
78. Pulley, Swivel Side, Single 2" or Greater	6		
79. Pulley, Swivel Side, Double, 2" or Greater	2		
80. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 150'	4		
81. Rope, Life Safety, Static Kernmantle 9000lb minimum strength 1/2" min, 300'	2		
82. Rope, Utility, 4500lb minimum strength 3/8" 150'	2		
83. Rope, Floating, 2000lb minimum strength, with throw bag for water rescue, 50' min.	4		
84. Stretcher, Basket Type capable of holding long back board. (for Advanced – 2 nd stretcher may be SKED type device)	2		
85. Webbing, Nylon, Tubular or Shuttle Loom, 4000lb, 20' minimum	16		
Monitors			
86. Monitor, Carbon Monoxide	1		
87. Monitor, Combustible Gas	1		
88. Monitor, Oxygen	1		
Combination Meter May Be Used	1		

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

Electric	Required	Present	Deficient
89. Cord, Electric Extension, 100', 10 gauge, 20 amp with grounded connectors	2		
90. Generator, Electric, Vehicle Mounted 110v 7.5kw, with spare fuel if appropriate	1		
91. Generator, Electric, Vehicle Mounted 110v 5.0kw, with spare fuel if appropriate	0		
92. Junction Box, 4 Outlet	2		
93. Kit, Electrical Adapters	1		
94. Light, Portable 500w minimum with Power Cables (Light Towers Acceptable for 50% of Lighting)	6		
Ladders			
95. Ladder, Attic Type. 8' minimum	1		
96. Ladder, Combination, Step to Straight, 8' Minimum	2		
97. Ladder, Extension, 24' minimum	1		
98. Ladder, Roof, 12' minimum	1		
Extinguishers			
99. Extinguisher, Fire, ABC, 20lb. 10A-40B	1		
100. Extinguisher, Fire Pressure Water or AFFF 2A minimum	1		
Communications			
101. Radio, Portable, Compatible with Local Communications System	2		
102. System, Public Address, Portable	1		
Powered Tools			
103. Air Bag System, High Pressure (>100 psi)	4 or more bag system with 76 tons total capacity		
104. Chisel, Air, with regulator, hoses, 2 sheet metal bits, 2 steel bits	2		
105. Saw, Chain, 16" Bar, Gasoline or Electric, with Spare Chain, and Spare Fuel	2		
106. Saw, Disk Type, with spare wood, masonry, and metal cutting blades	1		
107. Saw, Reciprocating, with Assorted Blades	2		
108. Torch, Cutting, (exothermic, oxy-acetylene, petrogen) with Supplies	1		
109. Winch, Powered, Vehicle Mounted or Pinnable, 8000lb minimum	1		

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

Hydraulic Rescue System		Required	Present	Deficient
110.	Power System/Pump	1		
111.	Backup Power System	1		
112.	Simultaneous Tool Operation	3		
113.	Spreaders (at least 24" spread)	2		
114.	Cutters	2		
115.	Combination Tool (May replace 1 cutter and spreader)	1		
116.	Ram, Short (12"-24")	1		
117.	Ram, Medium (20"-35")	1		
118.	Ram, Long (30" or greater)	1		
Personal Protective Gear				
119.	PFD, Type III (USCG Approved)	6		
120.	Helmet with Liner NFPA 1971 Compliant	1 per crew member		
121.	Coat, NFPA 1971 Compliant	1 per crew member		
122.	Pants, NFPA 1971 Compliant	1 per crew member		
123.	Boots, NFPA 1971 Compliant	1 per crew member		
124.	Eye Protection, ANSI Rated	1 per crew member		
125.	Gloves, Leather or Rescue	1 per crew member		
126.	ANSI II or Greater Reflective Highway Safety Vest	1 per crew member		
127.	Apparatus, Breathing, Self Contained, NFPA 1981 Compliant	6		

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

Medical Supplies		Required	Present	Deficient
128.	Penlight	1		
129.	Blood Pressure Cuffs, Adult, Pediatric, and Child	1 Set		
130.	Stethoscope	1		
131.	Suction Catheters, 6 flexible and 2 rigid	1 Set		
132.	Portable Suction Unit	1		
133.	Pocket Mask with 1 way Valve	1		
134.	Nasal Cannula, Adult and Pediatric	1 each		
135.	High Concentration Mask Adult, Infant, and Pediatric	1 each		
136.	Airways, Oral, Different Sizes	6		
137.	Airways, Nasal, Different Sizes	5		
138.	Bag Valve Mask, Adult, Infant, Pediatric	1 each		
139.	Adhesive Tape	4		
140.	Bandage Shears	1		
141.	Occlusive Dressings, 3"x4"	4		
142.	Roller Gauze	6		
143.	Sterile Burn Sheets 4'x4'	2		
144.	Sterile Gauze Pads 3"x3"	25		
145.	Sterile Universal Dressings 10"x30"	4		
146.	Triangular Bandages	8		
147.	Semi Rigid Neck Immobilizers (small, medium, large, pediatric, or multisized)	4		
148.	Cold Pack, Chemical	4		
149.	Triage Tags	25		
150.	Splinting Materials (air, board, ladder, etc)	6 sizes		
151.	Disposal Medical Gloves, Assorted	Various		
152.	Instant Glucose 45g	1		
153.	Sterile OB Kit	1		
154.	Bulb Syringe (Separate from OB kit)	1		
155.	Sterile Water/Normal Saline, 2 liters	1		
156.	Board, Long Spine, to fit Basket Stretcher	4		
157.	Board, Short Spine, or Equivalent, with Accessories	2		
158.	Oxygen Cylinder, Min. "D" size with Regulator	2		

RESCUE SERVICE RECOGNITION ADVANCED CHECKLIST

Infection Control Supplies		Required	Present	Deficient
159.	Clear Eye Protection	1 per crew member		
160.	Face Mask	1 per crew member		
161.	Gown/Coat	1 per crew member		
162.	Surgical Caps/Shoe Covers	1 per crew member		
163.	Medical Exam Gloves	1 per crew member		
164.	Biological Waste Container	1 box or 3 bags		
Scene Safety Devices				
165.	Warning Device, Traffic Safety, 12" Height (cones, triangles, etc)	6		
166.	Flare Fusee, 30 minutes	24		