

### RESCUE SYSTEMS 1 SITE REQUIREMENTS

#### (A) OVERVIEW

An accredited Rescue Systems 1 Training Site has facilities, structures, work areas, materials, props, tools, and equipment of adequate size, type, and quantity to fully and safely support the technical and manipulative training required to deliver the Rescue Systems 1 curriculum.

#### (B) GOALS

- (1) Set minimum performance training objectives for Rescue Systems 1 training programs.
- (2) Identify those performance objectives a Rescue Systems 1 Training Site must be capable of supporting.
- (3) Provide the means to ensure proper curriculum delivery.

#### (C) SITE ACCREDITATION

- (1) Rescue Systems 1 Training Sites will be inspected for compliance with the Rescue Systems 1 Site Requirements and Equipment Standards. Once inspected, sites may be accredited as one of the following:

- (a) Full accreditation

1. A permanent-use site that fully meets the Rescue Systems 1 Site Requirements and Equipment Standards.

- (b) Temporary accreditation

1. A short-term use site that meets the Rescue Systems 1 Site Requirements and Equipment Standards.
2. Typically, these sites are in areas where permanent sites are not practical or available.
3. Accreditation is granted for the purpose of delivering a set number of courses.
4. Once the training is complete, the temporary accreditation is rescinded.

- (2) Application process and site inspection

- (a) Full accreditation

1. A Rescue Systems 1 Training Site representative submits to the Chief of State Fire Training a formal letter requesting full accreditation for a permanent site.
  - a. This letter must describe the site in detail by listing the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a Rescue Systems 1 course.
2. State Fire Training staff and/or a registered Rescue Systems 1 Senior Instructor, operating under the direction of the Chief of State Fire Training, will conduct an inspection of the Rescue Systems 1 Training Site.
3. Any discrepancies or deficiencies will be appropriately documented and discussed with the site representative at the time of the inspection.
4. Copies of all inspection documents and notes will be kept on file.
5. The Chief of State Fire Training will notify the Rescue Systems 1 Training Site of their status after the inspection.

(b) Temporary accreditation

1. A registered Rescue Systems 1 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting temporary accreditation for delivering a Rescue Systems 1 course.
2. This letter must describe the site in detail by listing the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a Rescue Systems 1 course.
3. Photographs of each required structure, work area, and prop must be included in the application package.
4. A completed "Request for Rescue Systems Course Scheduling" providing the dates of the upcoming course and all instructors must be included in the application package.
5. Temporary accreditation must be requested at least ninety (90) days before the beginning date of the course.

(3) Appeals

(a) Step 1

1. The Rescue Systems 1 Training Site representative must submit in writing to the Chief of State Fire Training all evidence to support reversing the site accreditation denial.
2. After review of all submitted materials, the Chief of State Fire Training will notify the site representative in writing of the decision to uphold, modify, or withdraw the denial of accreditation.

(b) Step 2

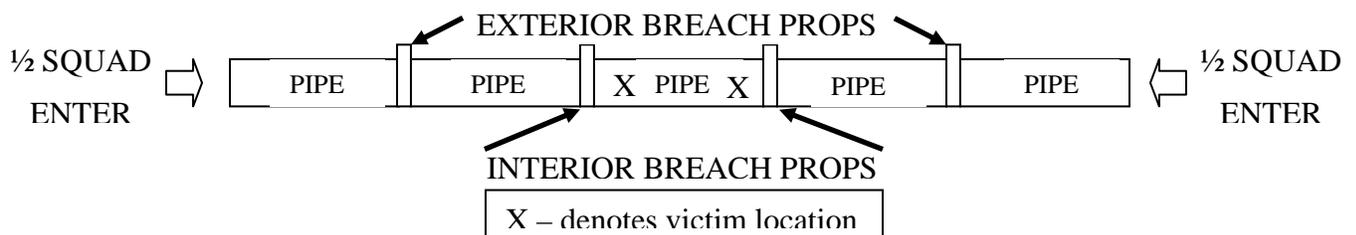
1. If the denial of accreditation is upheld, the site representative may appeal the findings to the Assistant State Fire Marshal.
2. The Rescue Systems 1 Training Site representative must submit in writing all evidence to support reversing the decision of the Chief of Education and Training.
3. After review of all submitted materials, the Assistant State Fire Marshal will notify the site representative in writing of the decision to uphold, modify, or withdraw the denial of accreditation.
4. The decision of the Assistant State Fire Marshal is final.

(D) SITE CAPACITY

- (1) Once accreditation has been established, a Rescue Systems 1 Training Site is evaluated on its ability to deliver the required field modules.
- (2) A site may be capable of delivering from one to four field modules simultaneously.
- (3) Each module capacity rating represents the maximum number of modules that may be taught on the site at any given time.
- (4) This maximum number will be determined based on the suitability of the site to safely train twelve (12) students in each of the individual modules.

- (5) The four modules include:
    - (a) Rope Rescue
    - (b) Heavy Objects & Breaking and Breaching
    - (c) Ladder Rescue Systems
    - (d) Emergency Building Shores
  - (6) 1-module site
    - (a) Capable of teaching one (1) field module at a time with a maximum of 12 students on the site.
    - (b) One (1) Primary Instructor is required.
  - (7) 2-module site
    - (a) Capable of teaching two (2) field modules simultaneously with a maximum of 24 students on the site.
    - (b) Two (2) Primary Instructors are required.
  - (8) 3-module site
    - (a) Capable of teaching three (3) field modules simultaneously with a maximum of 36 students on the site.
    - (b) Three (3) Primary Instructors and one (1) Senior Instructor are required.
  - (9) 4-module site
    - (a) Capable of teaching four (4) field modules simultaneously with a maximum of 48 students on the site.
    - (b) Four (4) Primary Instructors and one (1) Senior Instructor are required.
- (E) SITE REQUIREMENTS
- (1) The following are minimum requirements for a Rescue Systems 1 Training Site.
    - (a) The facilities and props for each module should be in close proximity to each other to facilitate timeframes.
  - (2) The requesting agency assumes all responsibility, liability, and maintenance for the engineering design, strength, stability, and adequacy of all props including anchor points and tie offs.
  - (3) The requesting agency further assumes all responsibility, liability, and maintenance for all tools, equipment, and supplies used at the site for the delivery of Rescue Systems 1 classes.
    - (a) This includes, but is not limited to, ladders, ropes, rescue hardware, and shoring and cribbing materials.
  - (4) ORIENTATION
    - (a) Classroom
    - (b) Audiovisual equipment
    - (c) Wash areas
    - (d) Bathrooms
    - (e) Rehabilitation area

- (f) Safe and adequate parking
- (5) ROPE RESCUE
  - (a) Structure, 30' minimum height with working roof that is of sound and safe engineering design.
  - (b) High and low anchor points to perform rope evolutions.
  - (c) Area to demonstrate and practice skills learned in Low Angle Rope Rescue (rescue knots, rescue/victim packaging, and rope systems).
  - (d) Area to demonstrate and practice anchor systems.
- (6) HEAVY OBJECTS
  - (a) Three (3) 20' x 20' concrete or asphalt pads with a 10' diameter buffer area at grade level (may be contiguous).
  - (b) Four (4) 3' x 3' x 3' concrete cubes.
  - (c) Four (4) 5' x 8' x 12" concrete reinforced slabs (6,000 pounds each).
- (7) BREAKING and BREACHING
  - (a) Working area at grade level, 20' long x 20' wide.
    - 1. Concrete, asphalt, or unimproved ground.
    - 2. Length of work area is dependent on the length of the pipe-shaped props.
  - (b) Five (5) pipe-shaped props. Shall be placed end to end allowing for breaching props to be placed between them.



- 1. Concrete, metal, or wood.
- 2. 36" - 48" diameter x 6' - 10' long.
- (c) Two (2) exterior wall breaching props.
  - 1. One side with 4' x 4' x 1/2" Wonder board over 4' x 4' stucco lathing over 4' x 4' x 3/4" plywood nailed with 8d nails 6" on center to a 2" x 4" frame with wood studs 16" on center nailed with 16d nails. The other side sheeted with 4' x 4' x 1/2" drywall.
  - 2. Each prop shall include a span of electrical wire / conduit to simulate an obstacle
- (d) Two (2) interior wall breaching props.
  - 1. One (1) with 4' x 4' x 1/2" drywall fastened with 1 1/4" drywall screws 6" on center to a 2" x 4" frame with metal studs 16" on center. The other side sheeted with another 4' x 4' x 1/2" drywall.
  - 2. Prop shall include a span of electrical wire / conduit to simulate an obstacle

3. One (1) with 4' x 4' x ½" drywall fastened with 1 ¼" drywall screws 6" on center to a 2" x 4" frame with 2" x 4" wood studs 16" on center nailed with 16d nails. The other side sheeted with another 4' x 4' x ½" drywall.
  4. Prop shall include a span of electrical wire / conduit to simulate an obstacle.
- (8) LADDER RESCUE
- (a) 20' structure adequate for simultaneous operations of ladder systems that is of sound and safe engineering design.
  - (b) Side openings to accommodate simultaneous operations of ladder systems.
  - (c) High and low anchor points appropriately placed for use with each operation.
  - (d) Open field area to accommodate simultaneous operations, ladder "A" frame, ladder gin, and pickets.
  - (e) Area to lower a student one story through an opening using an interior leaning ladder.
    1. An 8' minimum height is required.
- (9) SHORING
- (a) Structure(s) adequate for simultaneous operations of interior and exterior shoring systems that is of sound and safe engineering design.
    1. Area large enough to accommodate lumber supply (near cutting station).
  - (b) Interior Shores
    1. Working Area: 16' x 16' minimum with 8' ceiling.
    2. Timber Spot Shores.
      - a. Area with simulated or actual joist(s) to set two (2) timber spot shores.
    3. Two Post Vertical Shore.
      - a. Area with simulated or actual joist(s) to set one (1) two (2) post vertical shore.
    4. Two Post Horizontal Shore.
      - a. An opening 3' to 8' wide and 8' minimum in height.
    5. Window and Door Shores.
      - a. Window opening: 2' x 2' minimum to 4' x 4' maximum
      - b. Door opening: 2'6" x 6'8" minimum to 4' x 7' maximum
  - (c) Sloped Surface Shore (Cribbing).
    1. 8' x 8' working area minimum
    2. Configured so that the crib bed of a sloped floor shore is no greater than 3' in height when constructed.
    3. 3' elevation within a 10' distance maximum slope (30 percent / 15 degree slope)

- (d) Raker Shores.
  - 1. One (1) wall/area 14' high x 12' wide
  - 2. Working area: 16' away from building and 12' wide
- (e) Cutting Station.
  - 1. Minimum of 6" off the ground.
  - 2. 16' x 16' working area.

### (F) SITE DEVIATION

- (1) In the event that a training site has a facility, structure, or prop that does not comply with the Rescue Systems 1 Site Requirements and Equipment Standards, the site has the opportunity to apply for a site deviation.
- (2) A Rescue Systems 1 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting site deviation. This letter must describe the site deviation in detail by listing:
  - (a) The need and parameters of the deviation.
  - (b) New or revised lesson plans linked to the deviation that ensure consistency with the standards and behavioral objectives of the approved Rescue Systems 1 curriculum.
  - (c) Demonstration, either live or through visual aids, of any deviated technique or procedure.
- (3) The Chief of State Fire Training will review the request for site deviation.
  - (a) Any deficiencies will be appropriately documented and discussed with the Rescue Systems 1 Senior Instructor or designee requesting the site deviation.
  - (b) If site deviation is denied, a provisional accreditation may be granted at this time.
  - (c) If a site is not approved, they have three (3) months to comply with the site requirements identified as deficient in the inspection report.

### (G) EQUIPMENT STANDARDS

- (1) The equipment listed below is the minimum for each Rescue Systems 1 Training Site.
- (2) The equipment is in compliance with or exceeds the standards listed in NFPA 1983, Standard on Fire Service Life Safety Rope, Harness, and Hardware.
- (3) Student safety is of paramount importance when conducting the type of high-risk training associated with the Rescue Systems 1 course.
- (4) Students shall be responsible to provide proper PPE
- (5) Lumber list does not include lumber required to construct props

# RESCUE SYSTEMS 1

## Basic Rescue Skills

Item	Description	Ropes	Ladders	Shoring	Heavy Objects	Breaking And Breaching	Total 4 Modules
<b>CONSUMABLES</b>							
Common nails	8d			5 lbs.		5 lbs.	10 lbs.
Common nails	16d			5 lbs.		5 lbs.	10 lbs.
Drywall	4' x 8' x ½"					3	12
Duplex nails	8d			20 lbs.		5 lbs.	25 lbs.
Duplex nails	16d			40 lbs.		5 lbs.	45 lbs.
Gasoline and bar oil				1			1
Metal Studs	2" x 4" x 8'					2	8
Plywood	4' x 8' x ¾"					1	4
Stucco K-Lath / wire mesh	4' x 4'					2	8
Wonder Board	3' x 5' x ½"					2	8
<b>NONCONSUMABLES</b>							
Anchor plate		3	1				4
Brake bar rack		3	1				4
Carabiner (General Use)		25	25				25
Commercial Class III harness	Small	1	1				2
Commercial Class III harness	Medium	1	1				2
Commercial Class III harness	Large	1	1				2
Commercial Class III harness	Extra large	1	1				2
Commercial Victim Pelvic Harness		1	1				2
Commercial Victim Chest Harness		1	1				2
Cribbing	4"x4"x24"			24			24
Cribbing	4"x4"x18"				100		100
Cribbing	4"x4"x9"				25		25
Cribbing	2"x4"x9"				25		25
Cribbing/Cleat	2"x4"x24"			12			12
Cribbing/cleat	2"x4"x18"				50		50
Edge protector		1	1				2
Edge roller		2	1				3
Figure eight descender		3	1				4
Gibbs ascender		1	2				3
Gusset plate	12"x12"x¾"			44			44
Gusset plate	6"x12"x¾"			12			12
Ladder	14'		1				1
Ladder	24'		1				1
Load Releasing Strap		4	1				5
Lifeline (Low stretch or static)	½"x150'	3	3				6
Lumber	4"x4"x8'			16			16
Lumber	4"x4"x10'			2			2
Lumber	4"x4"x12'			3			3
Lumber	4"x4"x14'			2			2
Lumber	4"x4"x16'			2			2
Lumber	2"x4"x8'			18			18
Lumber	2"x4"x12'			2			2
Lumber	2"x6"x8'			7			7
Lumber	2"x4"x10'			2			2
Lumber	1"x6"x8'			4			4
Lumber	2"x6"x10'			6			6
Lumber	2"x6"x12'			9			9
Picket, steel	1"x4'		10	12		2	24

# RESCUE SYSTEMS 1

## Basic Rescue Skills

Item	Description	Ropes	Ladders	Shoring	Heavy Objects	Breaking And Breaching	Total 4 Modules
Plywood	4'x8'x3/4"			1			1
Prusik loop	Short	3	3				6
Prusik loop	Long	4	4				8
Prusik minding pulley		3	3				6
Pulley (round or PMP)	2" or 4"	3	3				6
Rescue litter		1	1				2
Rescue litter pre-rig with prusiks		1	1				2
Tie rope	10'	12					12
Webbing, blue tubular	1"x15'	15	10				25
Webbing, green tubular	1"x5'	15	10				25
Webbing, orange tubular	1"x20'	15	10				25
Webbing, yellow tubular	1"x12'	15	10				25
Wedge pairs	2"x4"x12"			12			12
Wedge pairs	4"x4"x18"			6	10		16
<b>TOOLS</b>							
Axe, flat head						2	2
Axe, pick head						1	1
Bolt cutter						2	2
Carpenter pencils				12			12
Cold chisel	1"x7-7/8"					2	2
Chain saw				2		2	2
Crow bar	3'			8	4	1	13
Framing hammer				12		1	13
Framing square with tables				2			2
Hacksaw, heavy duty						2	2
Hand saw, crosscut				2		2	4
Hydraulic jack	5 ton (min.)				1		1
Lumber marker				12		2	14
Measuring tape				12		2	14
Pinch point pry bar	60"				6	1	7
Pipe	2" x 4'				8		8
Shovel, round point			1			1	2
Shovel, square point						1	1
Single jack hammer	3 – 4 lb.			4		2	6
Sledge hammer	8 – 10 lb.		1			1	2
Speed square				12			12
Tool pouch				12			12
Circular saw kit - 10 1/4" (OPTIONAL)	40 tooth spare carbide tip – blade replacement wrench			1			1