



POWDER RIVER BASIN SAFETY ASSOCIATION  
P. O. BOX 112  
GILLETTE, WY 82717-0112

**DATE:** June 2<sup>nd</sup>, 2014  
**TO:** Surface Mine Rescue Team Trainers  
**FROM:** Powder River Basin Safety Association & Holmes Powder River Basin Safety Council  
**RE:** 34th ANNUAL INTERNATIONAL SURFACE MINE RESCUE COMPETITION

The Powder River Basin Safety Association and the Holmes Powder River Basin Safety Council, in conjunction with Arch Coal (Black Thunder Mine & Coal Creek Mine) invite you to participate in the 34<sup>th</sup> Annual International Surface Mine Rescue Competition to be held in Gillette, Wyoming. This year's event will be held on **Thursday August 14<sup>th</sup> and Friday August 15<sup>th</sup>, 2014. We will also be sponsoring a training day on Wednesday August 13<sup>th</sup>.** The topics for the training sessions will include Mine Rescue related topics. Class schedules will be released at a later date.

This year you will need to report to the Gillette College Technical Education Center located across the creek and north of the main campus building. The address of the Gillette College-Tech Center is: 3251 S. 4J Road. **This is where you will report on Wednesday by 8:00 a.m. MST. The location of the main Friday problem will be announced at the Captains' meeting on Thursday! Friday lock-up will be held at Gillette College. Lock-up opens at 4:00 am. Doors locked at 5:00 am.**

The Captains' meeting on Wednesday will be held at the Gillette College-Tech Center at the conclusion of the classes. The Captains' meeting on Thursday will be held at the Gillette College-Tech Center as well. The Awards banquet this year will also be held at the Gillette College-Tech Center on Friday evening at the conclusion of the competition.

A registration form and the rules for the competition are enclosed for your use. **The competition will be limited to the first twelve teams that submit a completed registration form on a first-come, first-serve basis.** The order in which the registrations and fees are received will determine the order that the teams will compete on Friday. ***Only one (1) team from each MINE SITE will be permitted to register.***

**On the registration form: Ensure that the person responsible for training the Mine Rescue Competition team is registered as "Head Trainer." Teams will be held accountable for this team slot.**

***It is important that you submit the registration form as soon as possible once registration is open. Registration opens on Monday June 16<sup>th</sup> at 8:00 am MST NO EARLY REGISTRATIONS WILL BE PERMITTED. If you have any questions, please call or e-mail:***

Josh Tompkins, President: (307) 670-3468 [josh.tompkins@miningelectricalservices.com](mailto:josh.tompkins@miningelectricalservices.com)

Lynn Busskohl, Vice-President (307) 464-2720 [lbusskohl@archcoal.com](mailto:lbusskohl@archcoal.com)

Dan Smith, Competition Chairman: (307) 622-3587 [DASmith@BBIIUS.com](mailto:DASmith@BBIIUS.com)

Robert Blaylock, Treasurer: [rblaylock@peabodyenergy.com](mailto:rblaylock@peabodyenergy.com)

Crystal Volk, Secretary: [cvolk@slswestlube.com](mailto:cvolk@slswestlube.com)

### 34<sup>th</sup> ANNUAL INTERNATIONAL SURFACE MINE RESCUE TEAM REGISTRATION

**Registration Deadline: Friday - June 27<sup>th</sup> (Opens on Monday June 16<sup>th</sup> at 8:00 am MST NO EARLY ENTRIES)**

Company: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Telephone #: \_\_\_\_\_

Contact Person(Responsible for Payment): \_\_\_\_\_

E-mail address: \_\_\_\_\_

#### TEAM MEMBERS

#### OCCUPATION

Captain: \_\_\_\_\_ / \_\_\_\_\_

Co-Captain: \_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ / \_\_\_\_\_

\_\_\_\_\_ / \_\_\_\_\_

**Head Trainer:** \_\_\_\_\_ / \_\_\_\_\_

**Co-Trainer** \_\_\_\_\_ / \_\_\_\_\_

**Safety Rep.** \_\_\_\_\_ / \_\_\_\_\_

# of Banquet Tickets requested: \_\_\_\_\_ @ \$35.00 each = Total \$ \_\_\_\_\_

# of T-Shirts requested: \_\_\_\_\_ @ \$20.00 each = Total \$ \_\_\_\_\_

Sizes Needed: (Adult: Sizes) Small \_\_\_\_\_ Medium \_\_\_\_\_

Large \_\_\_\_\_ X-Large \_\_\_\_\_ 2X-Large \_\_\_\_\_

# of Commemorative Belt Buckles: \_\_\_\_\_ @ \$30.00 each = Total \$ \_\_\_\_\_

Registration fee = \$ \_\_\_\_\_ \$600.00

**ALL FEES MUST BE IN UNITED STATES DOLLARS**

**Total Amount Due \$ \_\_\_\_\_**

**DIRECTIONS FOR REGISTRATION SUBMISSIONS ARE UNDER THE "REGISTRATION" SECTION OF THE RULES**



**34<sup>th</sup> ANNUAL INTERNATIONAL SURFACE MINE RESCUE COMPETITION  
GILLETTE, WYOMING  
RULES OF COMPETITION**

Adopted June 12, 1985  
Revised June 5<sup>th</sup>, 2014

**PURPOSE OF COMPETITION**

The purpose of the competition is to provide a learning experience for all participants and spectators in as realistic as possible an environment.

**ELIGIBILITY**

To be eligible for competition, a team should be composed of seven competing team members. All team members should be employed in the active mining industry, and with the mine they represent. No more than one individual, whose normal job function is designated as safety, fire director, or first aid, shall be allowed to participate on any team. This is not to preclude the participation of those individuals who participate in either voluntary or paid emergency or rescue activities outside their normal job activities away from the mine location (i.e., volunteer fireman, search and rescue organizations, and/or ambulance attendant). Teams may be made up of either supervisory or hourly employees.

**REGISTRATION**

*Registration Forms Must be emailed to Competition Committee Chairman Dan Smith and CC Josh Tompkins (President), Lynn Busskohl (Vice-President and Host Team), Bob Blaylock, Treasurer and Crystal Volk, Secretary. Registrations are time stamped from email, so please ensure ALL 5 contacts are in the email when you send in Registration. (However we will go off of Dan Smith's email time stamp)* Once Registration order is complete, Bob Blaylock will send the invoice from the Registration Information via email to the point of contact for each team. Once received, the Invoice must be paid via Credit Card from the link on the invoice sent from Bob. The TOTAL AMOUNT DUE WILL BE BILLED so save your copy of registration as an itemized receipt for expense report purposes.

**Only the first twelve teams** to have their registrations and fees to us will be allowed to participate. All teams that register will be contacted via e-mail notifying them that their registration and fees have been received and they have been accepted to participate in the competition. ***Please remember ONLY 1 team per Mine Site will be officially registered.***

**SPONSORSHIP**

The competition is sponsored by the Powder River Basin Safety Association, the Holmes Powder River Basin Safety Council, and Arch Coal (Black Thunder Mine and Coal Creek Mine).

**AGENCY RESPONSIBLE**

The Powder River Basin Safety Association shall have the sole responsibility of conducting the competition. This responsibility shall include the establishment of the problem, selection of judges, the actual competition, scoring and selection of winners.

**COMPETITION**

The Competition shall be composed of two segments held on two days, with the practical portion being held on the first day and the field portion on the second. All teams and team members shall participate in the practical portions. The scores from all team members will be used. **Twenty-five percent** of the team score from the practical portion of the competition will carry over and will be added to the second day's total team score. The scores from the practical portion shall be used to determine positions for the field portion.

**Only the first twelve teams** to have their registration form and fees to us will be allowed to participate. All teams that register will be contacted via e-mail notifying them that their registration and fees have been received and they have been accepted to participate in the competition.



**Teams are reminded that some components of the competition can be demanding and may require team members to possess moderate physical fitness, strength and agility.**

### **PRACTICAL PORTION**

The practical portion shall consist of stations at which all team members shall participate. These stations shall be designed to demonstrate practical knowledge and skills that all mine rescue personnel should possess.

The practical stations may include either written or oral examinations or demonstrations in the following areas:

- a. First Aid – both trauma and medical
- b. Cardiopulmonary Resuscitation
- c. Patient Assessment
- d. Ropes and Knots
- e. Confined Space & Hazmat
- f. Self-contained Breathing Apparatus
- g. Search and Rescue Techniques
- h. Extrication Procedures
- i. Fire Fighting
- i. Team Work

### **FIELD PORTION**

The field problem shall be representative of an emergency situation that your team could possibly be asked to respond to. This could include the mine property as well as public or private areas adjacent to the mine such as roadways, railways and waterways.

### **PARTICIPATION**

All team members shall participate in the field problem.

### **TIME**

The maximum amount of time allowed to complete the field problem will be announced at the Captains' meeting at the end of the first day. If time is stopped by the judges to check a procedure, or correct a procedure, all work by all team members must stop during this period. If correction to a procedure is required, it can only be done after time has been reinstated.

### **POINTS**

The Competition Committee shall have sole discretion in assigning points. However, 50 percent of all points shall be based on the safety of the team and the safety of the patient. Any team or team member who, in any way, jeopardizes the safety of either a team member or a patient shall be penalized at a rate proportionate to the endangerment. In the event there is more than one judge overseeing any portion of the problem, only a composite score will be turned in.

### **REVIEW COMMITTEE**

A review committee composed of the Competition Committee and judges will be established. The purpose of this committee shall be to review any questions or exceptions that a team may have regarding the way the team was scored in the field competition.

At the completion of the field problem, the team captain will have a maximum of one hour in which to complete the captain's report and submit it for grading. The captain may be assisted with the report by the team members, providing that all team members remain at the captain's table. Should any member leave the table prior to the report being turned in, that member will not be allowed to return to the table until the report is in the hands of the judge. No person(s) other than the team members are allowed to have input to the captain's report.

## **THE TEAM**

Each team shall be composed of seven working team members. Each team member shall wear a number (2-inch minimum in size), with Number 1 being assigned to the Captain, and Number 2 to the Co-Captain. Any means of affixing legible numbers on either the sleeve of the uniform or the hardhat will be acceptable.

Each team member must wear a protective hat (complete with chin strap), safety shoes, safety glasses and any other safety equipment deemed necessary for the specific hazard.

Team members may carry any personal equipment that they deem necessary. However, the equipment must not be so cumbersome as to create a hazardous situation for any team member. A recommended equipment list is attached.

Each team must supply its own equipment to complete the problem.

Each team must report to isolation before the start of the contest, in a location assigned by the Competition Committee. Teams under guard must be in a location where they will be unable to obtain any information concerning the problem to be worked. Any team receiving information concerning a contest problem prior to starting the problem will be disqualified.

A maximum time limit will be set for each problem. Failing to complete the entire contents of any problem may result in points lost. Scoring will be given only on that part of the problem completed.

On completion of the problem the team will pick up any equipment used, without repacking, and remove it from the site immediately.

The Competition Committee will pick up all score sheets immediately after each problem. All score sheets will be tabulated by a separate committee of judges.

The judges and the Competition Committee reserve the right to halt the contest due to extensive delay, lack of safety precautions or impractical rescue methods. If a team is allowed to resume, they will not be penalized for any time taken, by the judges, to make a decision.

All judges and contest officials shall be provided with some means of identification. Teams should be advised that any official so designated is not to be considered as an "element" of the problem.

In the event of a tie, the written exam and practical component sheets will be the tiebreaker.

The contest will be held regardless of weather.

**In fairness throughout the competition, communication devices (radios: AM, FM, 2-way, cellular phones, PDA's, iPods, laptops, tablets, etc.) will not be allowed during either day of the competition and will also not be allowed in lockup.**

Anyone accompanying the teams must stay with their team during Thursday's event. However, we do encourage everyone to come and support their teams, employees, family members. Please contact Josh Tompkins-President if you have any special requests at (307) 670-3468.

## **CONDUCT**

Rescue Competitions are an excellent training and learning event and all of us need to remember this when it comes to having a different point of view than a judge. All concerns will be addressed, and all involved need to keep a professional manner.

No personal alcoholic beverages will be allowed at, nor carried into, any portion of the competition or to any meetings or banquets connected to the competition. This includes the Captains' meetings on Wednesday and Thursday evenings as well as the banquet on Friday night. A cash bar will be provided each night of the event.



## **COMPETITION SAFETY**

Personnel from the Competition Host or the Powder River Basin Safety Association Competition Committee may at any time during a problem or scenario stop all activity in that scenario or problem if they believe an unsafe situation is occurring that could harm anyone involved. Time will be stopped at this point. The activity and time will resume after the concern is answered or the situation rectified to the satisfaction of the judges present or representatives of the PRBSA Competition Committee. Remember, proper patient care and handling is the ultimate responsibility of all team members.

## **EQUIPMENT LIST**

1. Medical equipment necessary to perform proper patient care and extrication skills at the First Responder level.
2. Two (2) 20 lb. fire extinguishers.
3. Equipment that will facilitate the raising or lowering of persons from one level to another.
4. Two fully charged self-contained breathing apparatus and two spare air cylinders.
5. Oxygen deficiency/LEL (lower explosive limit) detection equipment.

All teams will be required to bring a minimum of the equipment listed above and only that which can be carried by the seven team members. Rescue teams should be prepared to carry all of their equipment upstairs to the top of a multi-floored structure and down narrow passageways into areas of limited space.

**If you are bringing a new piece of equipment to this year's event, please be prepared to do a presentation regarding the equipment at the Captain's meeting on Wednesday afternoon.**

## **NOTICE!**

**We are requesting that 4 of your team members bring and be prepared to use full bunker gear.**

***There will NOT be a weight or size limit on gear, however if you bring it YOUR TEAM carries it. Wheeled conveyances will be allowed.***

Should you have any questions, please call:

Josh Tompkins, President: (307) 670-3468 [josh.tompkins@miningelectricalservices.com](mailto:josh.tompkins@miningelectricalservices.com)

Lynn Busskohl, Vice-President (307) 464-2720 [lbusskohl@archcoal.com](mailto:lbusskohl@archcoal.com)

Dan Smith, Competition Chairman: (307) 622-3587 [DASmith@BBIIUS.com](mailto:DASmith@BBIIUS.com)

Robert Blaylock, Treasurer: [rblaylock@peabodyenergy.com](mailto:rblaylock@peabodyenergy.com)

Crystal Volk, Secretary: [cvolk@slswestlube.com](mailto:cvolk@slswestlube.com)

## **34<sup>th</sup> Annual International Surface Mine**

### **Rescue Competition**

#### **REFERENCE TEXTS FOR 2014**

**Listed texts or more recent editions will be accepted.**

##### **First Responder - Eighth Edition**

**Brady: 1-800-638-0220**

Author: J. David Bergeron  
Publisher: A Brady Book\Pearson Prentice Hall  
Material: All chapters including appendices

##### **Essentials of Fire Fighting - Sixth Edition**

**IFSTA: 1-800-654-4055**

Author: International Fire Service Training Association (IFSTA)  
Publisher: Fire Protection Publications, Oklahoma State Univ.

##### **DOT 2012 Emergency Response Guidebook**

Authors: Staff Members of  
Publisher: Transport Canada, US DOT & Secretariat of Communications and Transport of Mexico  
**Logon to: Hazardous Material Safety's web site @ <http://hazmat.dot.gov>**  
**Look for a distributor in your area for purchase**

##### **High Angle Rescue Techniques – Third Edition**

Author: Tom Vines/Steve Hudson  
Publisher: Mosby Jems

##### **A Training Manual: Confined Space Entry and Rescue - Second Edition**

Author: By the Staff of CMC Rescue  
Available from CMC

##### **Mine Gas Chart**

Included in registration material

##### **30 CFR Parts 1-199**

Code of Federal Regulations

Name of Gas	Symbol	Common Name	Spec. Gravity	Source or Causes Where Found	Effect On Life	How Detected	Explosive	Combustible	Characteristics	Remarks
Hydrogen	H <sub>2</sub>	Hydrogen	0.069	Hydrolysis of water; Battery charging stations	No harmful effects with O <sub>2</sub> present	Multi-Gas Detector or Lab Testing	4.1 - 74%	YES	Colorless, odorless, tasteless	Reacts with oxidants
Methane	CH <sub>4</sub>	Fire Damp	0.545	Sewage, decaying plants or animals, coal seams	No harmful effects with O <sub>2</sub> present	Methanometer or Flame Safety Lamp	5 - 15%	YES	Colorless, odorless, tasteless	Requires 12% O <sub>2</sub> to burn
Acetylene	C <sub>2</sub> H <sub>2</sub>	Acetylene	0.91	Water and calcium carbide	No harmful effects with O <sub>2</sub> present	Multi-Gas Detector	2.8 - 81%	YES	Colorless, chemically scented	Pressure sensitive over 15 psi
Carbon Monoxide	CO	White Damp	0.967	From incomplete combustion, blasting & diesel exhaust	Poisonous	CO Detector	12.5 to 75%	YES	Colorless, odorless, tasteless, poisonous	TLV 0.005%, or 50 ppm / 8 hours
Nitrogen	N <sub>2</sub>	Nitrogen	0.97	Normal constituent of air	Will not support life	Chemical Analysis	NO	NO	Colorless, odorless, tasteless	78% OF AIR
Oxygen	O <sub>2</sub>	Oxygen	1.105	Generated by plant life	Essential to Life	O <sub>2</sub> Detector or Flame Safety Lamp	NO	NO	Colorless, odorless, tasteless	Supports combustion
Hydrogen Sulfide	H <sub>2</sub> S	Stink Damp	1.19	Decomposition of some sulfur ores, stagnate ponds	Sense of smell deadened; paralyze resp. system	Rotten egg odor or Multi-Gas Detector	4.3 - 45%	YES	Colorless, smell of rotten eggs, irritating	TLV 0.001% or 10 ppm
Carbon Dioxide	CO <sub>2</sub>	Black Damp	1.53	Respirations of men and animals; fire or oxidation	May Displace Oxygen	Multi-Gas Detector	NO	NO	Colorless, odorless, tasteless	TLV 0.05% or 500 ppm / 8 hours
Propane	C <sub>3</sub> H <sub>8</sub>	Propane	1.56	Petroleum Distillate	Displaces O <sub>2</sub>	Multi-Gas Detector	2.1 - 9.5%	YES	Colorless, Commercially scented, tasteless	TLV 0.1% or 1000 ppm
Oxides of Nitrogen	N <sub>2</sub> O N <sub>2</sub> O <sub>2</sub> NO <sub>x</sub> etc.	NOX	1.59	Blasting fumes, diesel exhaust	Toxic, causes edema of the lungs	Multi-Gas Detector	NO	NO	Red-brown in high conc. tasteless, poisonous	TLV 0.0005% or 5 ppm Anytime
Chlorine	Cl <sub>2</sub>	Chlorine	2.49	Electrolysis of common salt	Corrosive, irritant to eyes	Odor	NO	NO	Greenish, Yellow gas	TLV 0.0001% or 1 ppm



# Rescue Challenge

The Rescue Challenge will be held again this year, beginning at 1:00 p.m. on Wednesday. The event will be held in the main diesel shop of the College Tech Center. All competitors must be registered by 12:30 p.m. and a drawing of the names will determine positions. Competitors will run head-to-head on two side-by-side courses.

This year an additional category will be available for women competitors. So there will be an option for a male and a female competitor to represent each team. The current plan is to leave the course as is for the female competition. However, we will hold a meeting with the female competitors prior to the start and determine if any alterations should be made to the course layout, disqualification criteria, or time limits.

# RESCUE CHALLENGE

The Rescue Challenge is an event in which a single competitor will travel through a course, completing several skills, in the shortest time possible. Failure to complete any skill will result in a time penalty or disqualification. The competitor may be one of the seven team members, a trainer, or an additional person to the team. However, there will only be one competitor per entered team.

**The competition will involve the following skills:**

**Ascending/Descending** – Once competitors state they are ready to start, judges will check for unlocked carabiners or other improper rigging. Any infractions will result in time penalties. Time starts when the competitors leave the ground to ascend a fixed rope. All the necessary equipment may be attached to the line and the competitor may be on the system. A helmet, gloves, Class III harness, locking carabiners, and approved rope equipment must be used. A fellow team member will maintain a belay to the competitor's back ring with an approved belay device. The belayer must keep slack out of the competitors belay line during the station and may not release the tail of the line, unless a self-catch device is used. Once competitors reach a height in which a target can be touched, they change over and descend to the ground. The belayer will at that time disconnect the belay from the back ring, but cannot help remove any other equipment. The competitors may leave or wear any equipment they want from this station, except the helmet and gloves must be kept on until the fire hose station is completed.

**Patient Raise/Lower** – The competitors will use the equipment that they selected to raise a 165 lb. Rescue Randy in a Stokes litter. The allowable anchor points will already be established for the competitor to carabiner into. The litter will already be lashed and attached to a ½" rope that goes up through a high pulley and down to an angle change pulley. These pulleys will already be on the line in their designated locations. The competitors will utilize this line to complete the single-rope skill. No winches will be allowed, only pulleys, carabiners, control devices, and rope grabs. No additional rope or webbing will be allowed and no equipment may be connected together prior to starting the skill. (The only exception would be a load-release hitch with carabiners attached.) The competitor's allowable working area will be limited to require at least one reset. The litter will be raised approximately 25' to a target and then switched to a lowering system. The lower must be controlled so as to not injure a patient. To demonstrate control, the competitors will be required to stop descent of the litter in a zone, between one and three feet from the ground. The litter must be locked off and left at this level. Any unlocked carabiners or improper rigging will result in time penalties.

**Water Rescue** – The competitors will attach a 9mm rope to a Ring Buoy and throw the ring to a target. The competitors will be required to throw from a platform representing a 4' wide wooden dock. The distance from the dock to the target will be approximately 35' and the ring must encircle or touch the target to move on. The rope must be attached with an approved rescue knot and safety knot. Time penalties may be assessed for inappropriate knots or knots coming open. The rope must be on the dock to start and cannot be in contact with the ring buoy. The rope may be used to maneuver the ring to the target. A time penalty will be assessed for stepping off the dock prior to completing the skill. Any competitor, who is unable to touch the target, may elect to take a time penalty and move on, after three throws that pass the 30' line.

**Fire Hose Attack** – Competitors must remove the required equipment from a box and deploy it. They must extend two rolled up 2 ½" X 50' hoses, connect them together, connect a nozzle, and connect the hoses to a gate valve, which will already be on the hydrant. These steps may be performed in any order the competitors deem necessary. They then must fully extend the hose and knock down a target. A teammate may be utilized to open the gate valve on the competitor's command and shut it off when the target falls. A time penalty will be assessed if water flows from any connection before it is made up or if a connection blows apart. No connection may be touched after the target falls and if any connection can be tightened more than a quarter of a turn, a time penalty will be assessed for each loose fitting. As a safety factor, teammates may support competitors' backs to prevent the hose from pushing them around. However, the teammate may not support the hose. The competitor must maintain control of the hose until the water is shut off.

**Bunkering Up** – The competitors must don complete firefighting PPE. This will include NFPA: boots, pants, coat, gloves hood, helmet, and SCBA. All skin must be covered and the competitors must be on air to proceed. The SCBA must be turned on by the competitor and cannot be on prior to contact with it. A team member may coach the competitor, but cannot assist or make contact. Any exposed skin will result in a time penalty.

**Firefighter Maze** – The Competitors will carry a tool, or tools, of their choice through a maze. Sharp-edged tools must have protective covers. If a cover comes off, the competitor must stop and replace it before continuing on. The maze will require competitors to climb over, under, and through obstacles. They will ascend a ladder, contact a target, and descend the ladder. The target may not be contacted until the competitor's feet are above the 6<sup>th</sup> rung. The competitors must step on each rung within the climbing distance. No double steps or slides. At this time the protective cover may be removed from the tool. They will finish by breaching through a wall and ringing a bell on the other side. A comparable backup tool will be nearby, in the event of a broken handle. The wall will be constructed as follows: 8' tall, 4' wide, 2" X 4" wood framing on 16" centers, a 3-wire Romex cable ran from side to side at the 4' level, ½" sheetrock inside, and ½" OSB wafer board on the outside. Assembly will be with 16 penny nails and 1" screws. The wall will be supported in a steel frame. The competitor must pass completely through the wall to reach the bell, which stops the time. Tools may not be thrown.



# RULES

Competitors should provide their own bunker gear, SCBA, helmets, gloves, and harness.

It is recommended that they provide their own rope equipment and breaching tools.

A 2 ½" smooth bore nozzle will be provided, but competitors may bring their own.

A charged air nozzle, methanol, and graphite will be available for prepping the hose fittings, if desired.

Competitors must utilize the ropes, anchors, ring buoy, and hoses provided. This will include: ½" New England KM III Rope, Anchor straps with a single ring connection, a 24" USCG Ring Buoy, 9mm throw line, and 2 ½" (brass collared) fire hose.

The Competition Committee will provide a complete assortment of equipment to competitors in the event they wish to use it. The equipment will be adequate to run the course competitively. However, competitors may be faster with their own equipment.

Time penalties will be 5 seconds per infraction and will be added to the competitors finish time.

**Competitors and their team will be given 5 minutes to set the field. This will include a maximum of eight people strategically placing equipment and rigging the first station to optimize speed. A one minute warning will be announced. Failure of the team to clear the field by the end of the 5-minute set-up period will result in disqualification of the competitor.**

**The following situations will be grounds for disqualification:**

1. Failure to complete any portion of the Rescue Challenge as it was designed.
2. Failure to ascend to the target.
3. Loss of control during descent.
4. The belayer releasing the tail of the belay line.
5. Failure to raise the litter to the target.
6. The litter being dropped, or touching the ground during the lower.
7. Inability to throw the ring buoy beyond 30' forward of the dock.
8. The ring buoy coming off the rope.
9. Losing contact with the dock prior to contact with the target.
10. Inability to knock down the target with the fire hose stream.
11. Tightening connections after the target falls.
12. Teammates supporting the hose for the competitor.
13. Failure to completely don any of the firefighting PPE.
14. Any teammate making contact with a competitor or PPE during bunkering or the maze.
15. Failure to follow the course of the maze.
16. Moving through the maze with an unprotected edged tool.
17. Failure to step on each rung within the climbing range, during ladder climbing.
18. Failure to contact the ladder target from above the 6<sup>th</sup> rung on the ladder.
19. Failure to breach through the wall.
20. Throwing a breaching tool.
21. Interfering with a competitor on another team.

**The following situations will be grounds for a re-run:**

1. Failure of any component within the course, in which the competitor has no control.
2. If a judge or spectator physically hinders the progress of the competitor. (This does not include teammates.)
3. If a judge stops a competitor for an incorrect reason.

**A re-run must be approved by a consensus of the judges and the competitors.**

# COURSE MAP

