



Rhodie Ropes LLC

Rope Access and Rescue Practitioner

REDECS

Research - Develop - Educate - Certify - Support

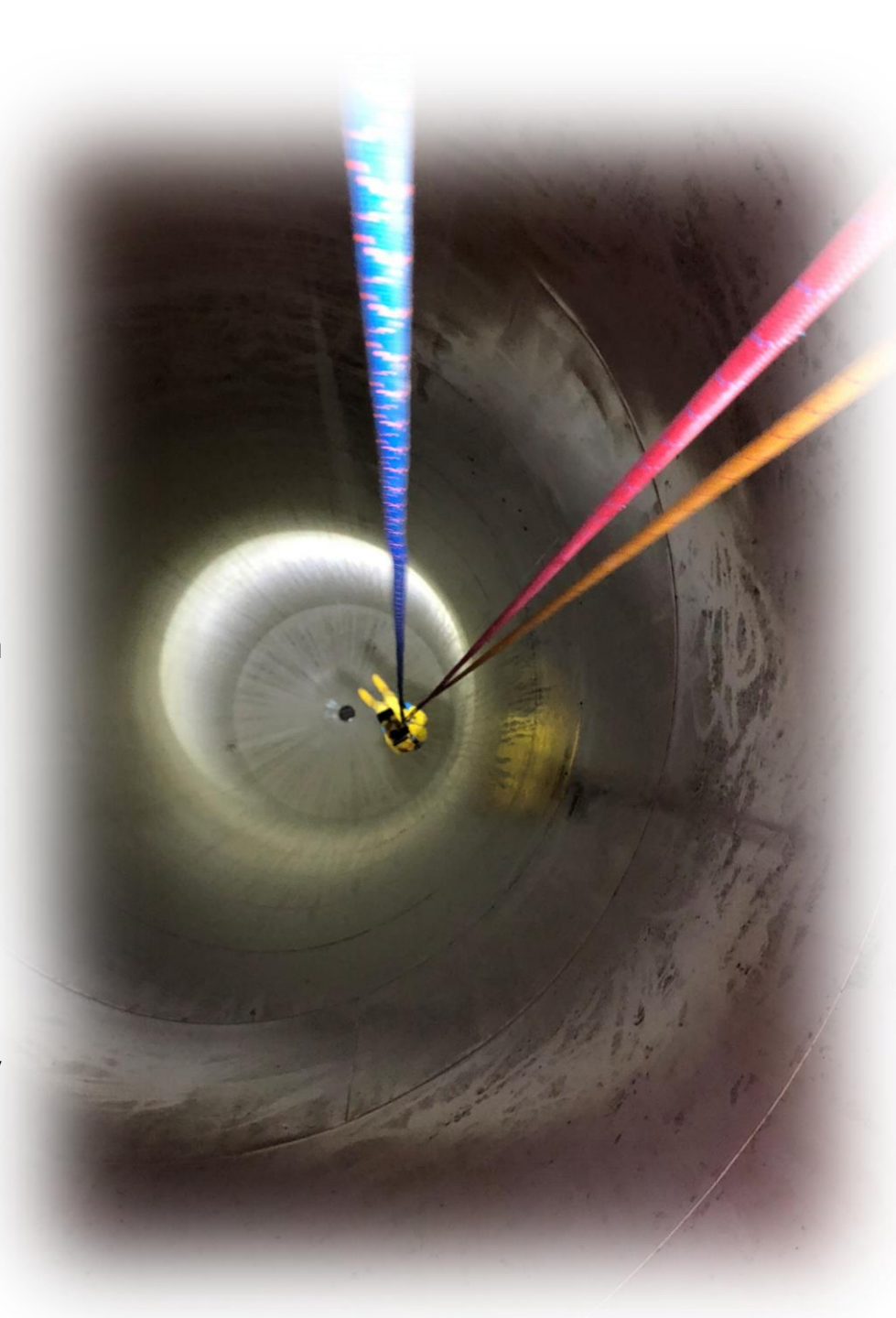
Introduction

Arming the employer with the tools that will help determine the level of training, equipment, and expertise support needed at your specific workplace.

Safety and rescue are symbiotic. A sustainable safety program at the place of employment is the prerequisite for the application of a quality rescue program. It is our primary goal to assist the employer in developing an applicable rescue strategy that is supplemental to the employer's safety program.

Performing a safe and expedient rescue is one of the most misunderstood concepts in our modern industrial society. Workers simply don't know what they don't know in an unplanned attempt of moving an incapacitated human in a challenging environment.

The preferred approach is to develop a rescue program that is based on employee capabilities, and the environmental factors of the workplace and at the same time, develop a working relationship with the local fire/rescue component. Conversely, over reliance of the fire service to save the day plays into this rescue misunderstanding. The fire service will provide substantial emergency medical support and, at times, technical rescue help. Ultimately, the fire service is extremely reliant on the subject matter expertise within the worksite. When the subject matter experts are trained in worksite specific rescue and concise rescue plan development the outcome is greatly enhanced.



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The Rescue Potential Matrix

← More Basic

More Complex →

General Industry
Rescue Technician (RT)

**Professional
Rescue**
Rescue Competent
Person (RCP)

**High Risk
Rescue**

**Rope
Access**

**Expert in
Rigging
and
Rescue
Physics**

**Rescue
Qualified
Person
(RQP)**

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Rescue Potential Matrix (RPM)

- RT Level: 90% of industrial rescues; team can perform *basic* rescues.
- RCP Level: 9% of industrial rescues; team can perform *moderate* rescues.
- RQP Level: 1% of industrial rescues; team can perform *complex* rescues.

Rescue Potential Matrix (RPM)

Conditions	Instructor/Training Level	Points
Non IDLH horizontal confined space - Presents little or no configuration challenges and no high angle potential.	Team Leader Annual training	1
Vertical potential less than 12' in depth.	Team Leader Train 2x per yr.	2
Vertical potential greater the 12' but less than 32'	Team Leader Train 4x per yr.	3
Configuration Issues Overhead space less than 36"	Team Leader Train 4x per yr.	4
Configuration Issues Opening less than 24";converging/inward sloping walls	Team Leader Train 4x per yr.	5
Configuration Issues 36" or smaller pipe entry with one 90° bend	Instructor (CSR) Train 6x per yr.	6
Configuration Issues 36" or smaller pipe entry with multiple 90° bends	Lead (CSR) Monthly	7
Engulfment potential	Lead (CSR) Monthly	8



Rescue Potential Matrix (RPM)

Conditions	Instructor/Training Level	Points
IDLH potential Lead instructor with SCBA & SABA	Lead (CSR) Monthly	9
Vertical potential Greater than 32', but less than 64'	Lead (Rope) Monthly	10
Vertical potential Greater than 64'	Lead (Rope) Monthly	11
Vertical potential Vertical mobility/horizontal/rope access and positioning	Lead (Rope Access) 2x Per Month	12
Strip mining operations	Specialized 2x Per Month	13
Mining operations Underground also includes underground construction	Specialized 2x Per Month	14
Structural steel/tower rescue	Rope Access(Tower) 2x Per Month	15
Explosive environment with heavy fire loads.	Specialized (Fire) 2x Per Month	16
Open water evacuation	Specialized Water, Train Weekly	17
Transmission tower live-line rope access	Specialized Advanced Rope Access + Live-line, Train Weekly	18
Terrorist attack and natural disasters This level and the next level is extremely rare and could require an instructor team.	Specialized	19
Advance rescue support (including wilderness rescue) More than one hour outside of the available /local resources.	Specialized	20

RT Level:

Estimated 90% of industrial rescue needs are at this level.

RPM Points Total 1 to 15

The Green Level represents the large majority of industrial rescue needs.

This Train the Trainer course is designed for the Green Level.

The next step in the rescue progression (Yellow Level) would be to complete the appropriate specialized module, i.e. Advanced Rope Rescue, or Confined Space Rescue

Standby Rescue:

Although the suggested training schedule should be manageable for most in-house rescue teams under the direction of their in-house trainer, the client may feel the need to have contracted standby support during extenuating circumstances.

RCP Level:

Estimated 9% of industrial rescue needs are at this level.

RPM Point Total 21 to 36

These areas reflect a crossover from the TTT methodology to more specialized instructor and participant training requirements.

Standby Rescue:

These areas may require the company to contract standby rescue if the training recommendations are too demanding for the in-house team, and/or rescue team manpower is not available .

RQP Level:

Only a small percentage (maybe 1%) of industrial rescue needs are at this level.

RPM Point Total 45 to 210

These areas reflect more specialized instructor and participant training requirements, combined with substantial practice and experience.

Standby Rescue:

These areas typically require a full time in-house and/or a standby rescue contingency. The greater the RPM point total, the larger the number and more specialized the rescue team must be.



RESCUE SERVICES

When provided by onsite personnel the employer shall

- Ensure that each member is properly trained in use of PPE and rescue equipment
- Ensure that each is trained to perform the assigned rescue duties
- Ensure that each is trained in performance of all authorized entrant duties

RESCUE SERVICES

- Ensure that the rescue team shall practice making rescues ***at least*** once every 12 months by means of simulated operations with manikins, dummies or actual persons from the actual permitted spaces or representative spaces
- Ensure that at least one member is trained in basic first aid and CPR

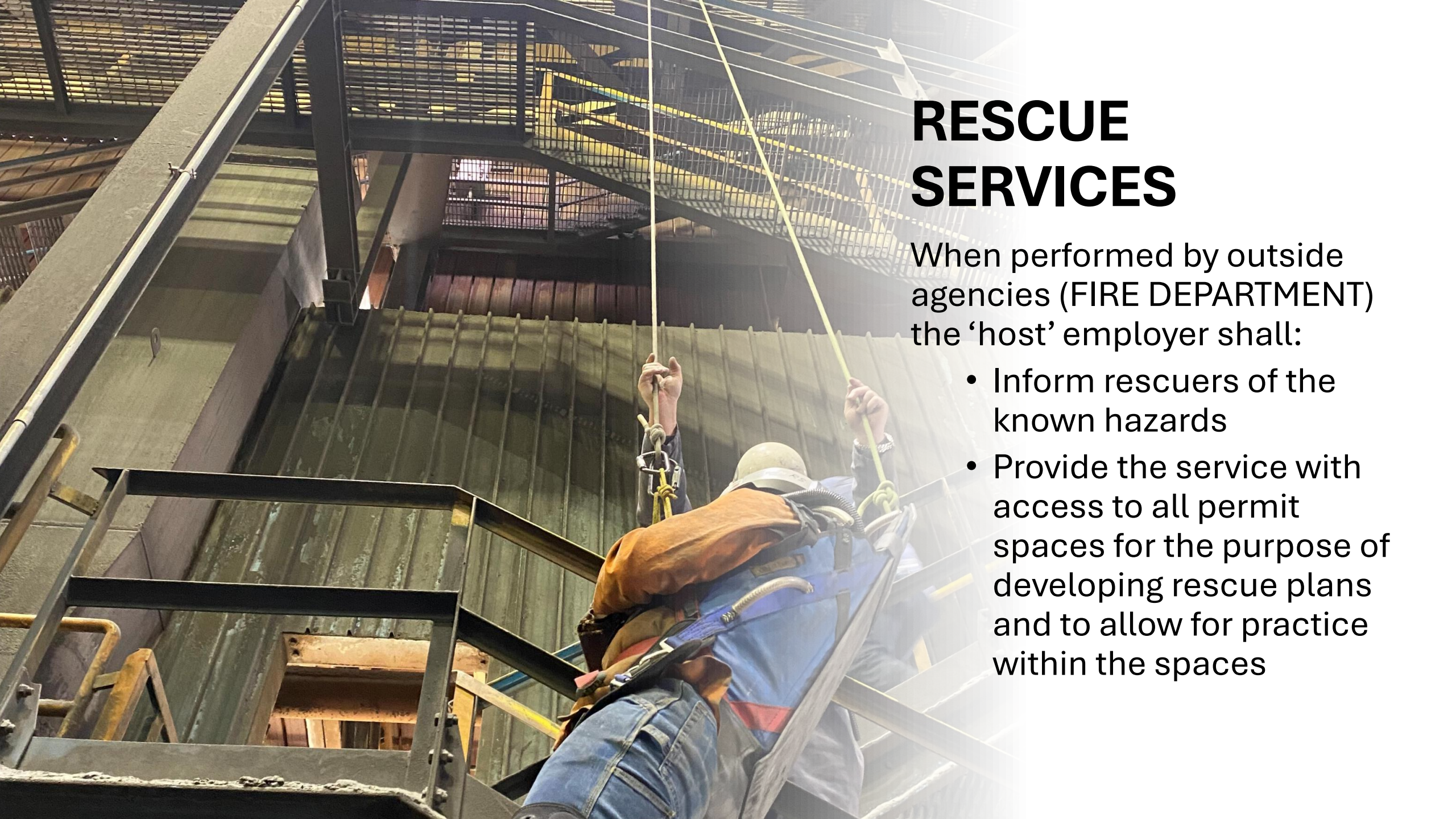


RESCUE SERVICES

An employer who designates rescue and emergency services, including the fire service , shall:

- Evaluate a prospective rescuer's ability to respond to a rescue summons in a timely manner.
- Evaluate a prospective rescue service's ability, in terms of proficiency with rescue-related tasks and equipment.
- Select a rescue team or service from those evaluated that:
 - Has the capability to reach the victim(s) within a time frame that is appropriate for the permit space hazard(s) identified;
 - Is equipped for and proficient in performing the needed rescue services;





RESCUE SERVICES

When performed by outside agencies (FIRE DEPARTMENT) the 'host' employer shall:

- Inform rescuers of the known hazards
- Provide the service with access to all permit spaces for the purpose of developing rescue plans and to allow for practice within the spaces





Rescue Trends in OSHA

OSHA is replacing existing
29 CFR 1910.156,
Fire Brigades standard

Now called:
Emergency Response

Who Would be Covered by Emergency Response?

All professional,
volunteer, and
combination fire
departments

Primary function of the
organization.

All general
industry/workplace
emergency
response teams

Collateral duty to regular
job duties.



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Rescue for Fire - General Industry – Construction -Wilderness