



**TECHNICAL RESCUE SERVICES**



**Plan, Practice, Prepare, Perform, Preserve**



**HHSL Technical Recue Operations Team Members in Training**





## What is Technical Rescue?

**Technical rescue refers to those aspects of saving life or property that employ the use of tools and skills that exceed those normally reserved for fire fighting, medical emergency, and rescue. These disciplines include rope rescue, confined space rescue, ski rescue, cave rescue, trench/excavation rescue, and building collapse rescue, among others.**

The HHS Technical Rescue Operations Team (TROT) specializes in various aspects of technical rescue at the operations level and is committed to safety through the use of approved techniques and equipment while maintaining international standards recognized in the rescue industry. Personnel attached to the Technical Rescue Operations Team put in numerous hours of additional training & drills to remain operationally ready and abreast of the latest advancements in the rescue field and also work hard to keep the equipment rescue prepared.

HHS Safety Systems Limited provides Technical Rescue principally in the following areas:

- Confined Space Rescue
- Rope Rescue
- Trench Rescue
- In Water & Over Water Rescue



## **Confined Space Rescue**

Confined Space Rescue involves the rescue and recovery of victims trapped in a confined space or in areas only accessible through confined spaces, such as underground vaults, storage silos, storage tanks, or sewers. Rescues involving a confined space require advanced rope rescue knowledge and additional training in atmospheric monitoring, patient handling and the use of supplied air breathing systems.

## **Rope Rescue**

Rope Rescue involves the use of static nylon kernmantle ropes, anchoring and belaying devices, friction rappel devices, various devices to utilize mechanical advantage for hauling systems, and other specialized equipment to reach victims and safely recover them. HHSL's Technical Response Operations Team maintains a cache of rope rescue equipment and trains at various locations throughout the country.

## **Trench Rescue**

Rescues involving a collapsed trench are extremely dangerous, technical and time consuming. Trench Rescue involves shoring up the sides of a trench and digging a trapped worker out of a collapsed ditch. HHSL's Technical Response Operations Team members train on how to safely and effectively perform rescues involving a collapsed trench.



## SCOPE

To provide **Standby Fire / Rescue Services Personnel and Equipment** for clientele who require competent and highly skilled technical personnel to perform the following:

- Confined Space Rescue Standby Support during vessel cleaning, steaming, purging operations, painting and non-destructive testing, in Offshore and Onshore environments.
- High Angle Rescue Service support for offshore scaffolding works, crane inspections and maintenance activities as well as onshore process plant Shut Down operations.
- Trench Rescue Standby Services for sand blasting and corrosion painting of underground pipelines, the installation of piping in depths below 4ft.
- Standby Rescue Services for personnel involved in marine vessels requiring tank cleaning or HOT work activity while at port.

## DETAILS OF SERVICE

Most Standby Rescue or Fire Standby Service jobs require a minimum of two trained Fire /Rescue persons on site with the following skill criteria:

- Certification in High Angle Rope Rescue, Confined Space Rescue at the Operations or Technician Level.

### **Rope Rescue Operations Level 1:**

The HHSI Rescuer has the skill, knowledge and ability to perform rope rescue skills according to NFPA 1670 Operations and NFPA 1006 Technical Rescuer Level I standards for Rope Rescue. The Rescuer is trained to perform basic rappelling and ascending skills as well as hazard recognition, scene control and management, Rope Rescue hardware & software, care and use, rescue knots, single point anchors, multi-point anchors, belay/safety systems, self rescue, fixed brake lowering systems, rope based mechanical advantage systems, patient packaging and rescue litter systems, litter movement in the low angle and high angle environment.

### **Rope Rescue Technician Level 2:**



The HHSL Rescuer meets all requirements for NFPA 1670 Rope Rescue Technician and NFPA 1006 Technical Rescuer Level II. The Rescuer is equipped in advanced skills of team management, rope rescue physics, load factors, critical angles, constructing multi-point anchor systems, passing knots in systems, negotiating obstacles, offsets, constructing artificial high directional anchors, constructing high line rope systems and attendant litter systems.

### **Confined Space Rescue Technician:**

The HHSL Fire / Rescue Technicians are also highly trained in Confined Space Rescue at the Operational and Technician levels. At the operational level, HHSL's Rescuers are trained in accordance with OSHA 1910.146 and NFPA 1670 requirements for Confined Space Rescue Operations and NFPA 1006 Technical Rescuer Level I. Personnel are trained in the ability to identify the types of confined spaces, hazard recognition and control, atmospheric monitoring, personal protective equipment analysis, rescue equipment use, rigging techniques, attendant and entrant procedures, patient packaging, communications, SCBA/SABA management, confined space manipulation skills, rescue entry, patient removal and post rescue considerations.

At the technician level, personnel are trained in all the competencies mentioned above including skill and ability to design pre-plan (emergency response plans) for confined space rescue, manage rescue operations, ability to control hazards, advanced skill in confined space rescue and communications procedures.

- HHSL's Fire/Rescue Technicians possess firefighting experience which is a key asset needed in industrial Incidents/Accidents and Emergencies. The HHSL's Fire/Rescue Technicians can apply his/her firefighting abilities to combat hydrocarbon fires and other chemical based fires.
- HHSL's Fire/Rescue Technicians possess authorized gas tester training and certification as under the TT OSH Act, industrial environment policies require that all confined space and trenches must be continuously air monitored for flammable, combustible and toxic vapors, for the full duration of work being performed in these spaces.



- HHSL's Fire/Rescue Technicians also possess a basic level of medical response training which allows personnel to extricate casualty and provide basic life support and spinal immobilization procedures.

## INFORMATION NEEDED BY HHSL FROM CLIENT PRIOR TO JOB/SERVICE COMMENCEMENT

1. Job scope highlighting the task the client intends to perform.
2. Duration of the job and how long would fire /rescue services be required.
3. Site visit or consultation between HHSL head of emergency services and the client on specific aspects of the job and the various risks which workers can encounter during work operations.
4. MSDS of any products that will be encountered by the team during work operations.

## INFORMATION NEEDED BY CLIENT FROM HHSL PRIOR TO JOB/SERVICE COMMENCEMENT

1. Emergency response plan for the particular work operation to be performed. The Rescuers are required to devise an ERP that would be used if an emergency arises on the jobsite. This plan will be reviewed by the client and added to the client's work pack.
2. The plan will be modified by Rescue Teams while onsite if new or additional hazards are identified.
3. Minimum Certification level of HHSL Fire/Rescue Technicians assigned to a particular project:
  - UKOOA medical certification (for offshore projects)
  - T-BOSIET (for offshore projects)
  - Rescue Certification of each Technician
  - Authorized Gas tester Level 1
  - Fire Fighting certification
  - Medical responder certification (As required)
  - PLEA





Note: All personnel must undergo industry standard drug testing prior to being assigned.

## PROPOSED RATES FOR FIRE/ RESCUE STANDBY SERVICES

### ✓ Offshore Rates (incl. vessels)

Please contact our office (868) 679-1234 or email [hhservices@hhsafety.com](mailto:hhservices@hhsafety.com)

- Rate applies to a normal 12 hour shift on offshore installations
- Work beyond 12 hrs. will be invoiced at 1.5 times for the first 4 hours
- Work beyond 16 hrs. will be invoiced at double time

### PUBLIC HOLIDAYS

Public holidays will incur a double time rate for the duration of the 12hr shift and triple time beyond 12hrs.

### Special considerations

- Cancellation notice required 24 hrs prior to reporting. 1 Day penalty fee per technician will be applied for cancellation made within this period. This also includes cancellation whilst at the Heliport awaiting travel.

### ✓ Land Based /Onshore Rates

Please contact our office (868) 679-1234 or email [hhservices@hhsafety.com](mailto:hhservices@hhsafety.com)

- Rate applies to normal 8 hour shift on land based installations.
- Work beyond 8 hours will be invoiced the first 4 hrs x 1.5 and beyond 12 hrs double time will be applied.

### WEEKENDS & Public Holidays

Weekends will incur 1.5 x rate for the 12hr shift and Double Time thereafter.

Public Holidays billed at Double Time for 12hr shift and Triple Time thereafter.



## Special considerations

- Cancellation notice required 24 hrs prior to reporting. 1 Day penalty fee per technician will be applied for cancellation made within this period.
- MINIMUM DAILY Guarantee of 5 hours shall apply for all jobs.

## RESCUE KIT RENTAL

- The client will be charged a fixed Rescue Kit Rental per day per kit. The rescue kit will be used by HHSL Fire /Rescue Technicians on standby duty for high angle (over the side projects), Offshore/ Onshore Confined Space jobs and Trench rescue jobs. Basic Rescue kit comprises of:

- ✚ 150-300ft Life Safety Ropes
- ✚ Tripod
- ✚ Winch
- ✚ Double pulleys
- ✚ Carabiners
- ✚ Rope Grab
- ✚ Prussic Cords
- ✚ Figure of eight
- ✚ 3 point Lanyards
- ✚ Harnesses
- ✚ SCBA units (*Optional. Will be required for extremely high hazard jobs at an additional cost per day per unit.*)

## OTHER EQUIPMENT AVAILABLE ON A RENTAL BASIS

- Vent Blower
- 4 Gas Tester
- Explosion Proof Torch Lights
- Breathing Air Carts (includes 2-220cu ft Cylinders, 2-50' Air lines, 2 Face Pieces with regulators)
- Spare Cylinders
- SCBA Sets (SCOTT & MSA)



