

OREGON TASK FORCE 1

URBAN SEARCH & RESCUE

POSITION DESCRIPTION



RIGGING TECHNICIAN

(This position must possess all certifications and requirements for OR-TF1-Rescue Technician)

Functional Description

The Rigger is responsible for performing various assessments and construction-related liaison for the Task Force during incident operations. The Rigger reports directly to the Rescue Company Officer or Rescue Team Manager.

Description of Duties

The Rigger is responsible for:

1. Assessing the need for and capabilities of various types of construction-related equipment to assist task force personnel in US&R activities.
2. Identifying various rigging techniques to assist in the rescue of victims or stabilization of collapsed buildings.
3. Interacting with and coordinating efforts between the task force personnel and heavy equipment and crane operators.
4. Adhering to all safety procedures.
5. Accountability, maintenance, and minor repairs for all issued equipment.
6. Performing additional tasks or duties as assigned during a mission.

Position Requirements and Criteria

Individuals who meet the following requirements and criteria will be eligible to become a Rigger in the Oregon USAR Task Force. The intent of these requirements is to select personnel fully capable of providing competent assessments and advice to task force personnel in the urban disaster environment. The requirements and criteria for the position are identified in the following categories:

Task Force General Requirements

- A. Must be physically fit as governed by the sponsoring organization.
- B. When on assigned rotation able to mobilize within 30 minutes of request and be self sufficient for at least 72 hours.
- C. Must be capable of improvising and functioning for long hours under adverse conditions.
- D. Must be able to function safely at heights and on or around rubble.
- F. Must understand and adhere to safe working practices and procedures as required in the urban disaster environment.
- G. Must have a working knowledge of the Oregon US&R Response Systems and organizational structures, operating procedures, safety practices, terminology, knowledge of all task force equipment, and communications protocols.
- H. Must have successfully completed, as a minimum, the First Responder Operations Level for Hazardous Materials per OSHA Standard 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response or equivalent.
- I. Must understand the needs of and provide support to their counterparts with the task force specific operations, techniques and application of tools and equipment

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- J. Must be current on annual training on Bloodborne Pathogens per 29 CFR 1910.1030 Standard on Bloodborne Pathogens (Oregon OSHA OAR 437, Division 2/Z, Toxic and Hazardous Substances).

Knowledge

1. Knowledge of the operational characteristics and capabilities of heavy construction equipment to include, but not limited to, cranes, back hoes, front-end loaders, dump trucks, etc.
2. Knowledge of heavy construction techniques
3. Knowledge of heavy rigging operations, to include:
Knowledge of the use and application of rigging tools to include, but not limited to:
 - A. Wire rope and wire rope slings
 - B. Chain and fabric slings
 - C. Woven wire slings
 - D. Load binders, come-alongs, and chain falls
 - E. Snatch blocks and block and tackle
 - F. Swivels, hooks, and shackles
4. Knowledge of lift capacity assessment, to include:
 - A. Assessment of rigging attachments at a rescue site.
 - B. Determination of the lift capacities of various types of rigging equipment through the interpretation of specification charts.
 - C. Determination of the rated capacities of various slings and bridles from specification charts.
5. Knowledge of lift engineering applications, to include:
 - A. Various hitch systems.
 - B. Calculation of load application on sling systems.
 - C. Raising systems.
6. Knowledge of equipment maintenance and inspection procedures.
7. Knowledge in the use of anchor systems, to include:
 - A. The use and application of fastening and anchoring devices.
 - B. The knowledge of placement and loading principles.
 - C. The understanding of anchor failure principles.
8. Knowledge of the methods of construction using any of the common building materials.
9. Understanding of the construction techniques of architectural materials such as unreinforced masonry and concrete.
6. Knowledge of the capabilities of light construction equipment including, but not limited to, rotary impact drills, concrete saws, and core drills.
7. Knowledge of shoring methods and materials, to include:
 - A. Knowledge of the abilities of various shoring materials such as air bags, jack shores, pneumatic, shores and timber.
 - B. Ability to improvise and provide shoring with available materials.
 - C. Knowledge of techniques and ability to recognize and prevent potential problems.
8. Knowledge of universal hand signals for heavy equipment use (i.e. cranes, forklifts, Bobcats, loaders)

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Rigging Technician Training Requirements

1. Successful completion by 06/01/2006
 - a. OR-TF1 Cache Course
2. FEMA Structural Collapse Technician – 80 hour course
3. Meets or exceeds DPSSST Technician Level for Rope, CSR, Trench, Vehicle/heavy machinery.
4. Incident Command System (I-200)
5. Successful completion of FEMA rigging Specialist course or equivalent.
6. Members qualified on specific pieces of heavy equipment must be approved by their representative department as showing competency in the safety and use of that apparatus.