



Job Performance Review

Machinery Rescue Operations

Individual Level Competency

JPR Title

Machinery Rescue Operations

JPR Number

JPR-TR-5

Reference

NFPA 1670 – Standard on Operations and Training for Technical Search and Rescue Incidents

NFPA 1006 – Standard for Technical Rescuer Professional Qualifications

IFSTA Essentials of Firefighting

ATFD Standards of Cover and Risk Analysis

Performance Criteria

Firefighter / Rescuer is able to articulate the various aspects of machinery rescue operations and systems as identified below.

Identification and operation of appropriate equipment for machinery rescue operations, as follows:

Small Hand Tools – Standard & Metric	Lock Out – Tag Out Kit	Electric Hot Sticks
Impact Wrenches	Pry Bars	Mechanical Advantage Systems
Chains and Come-Along	Small Cut off Saw	Reciprocating Saw
Tin Snips	Air Chisel	Stabilization Tools and Equipment
Thermal Imaging Camera	Snake Eye Camera	Small Air Bags
Porta Power	Portable Lighting	Bottle Jacks
Listening Device	Backboards	Rescue Basket
Hack Saws	Cribbing	Cutting Torches

The above listing is a suggested selection of appropriate equipment.

Time Parameters

Safe and efficient manner

Safety Precautions

Space allocation to prevent injury to self or others while operating

Appropriate PPE

Attention to surroundings

Procedure

- ✓ Establish Command
- ✓ Control Distraught Rescue Attempts from Bystanders
- ✓ Identify Key Facility Personnel
- ✓ Isolate Power to the Machine – Using Lock Out / Tag Out Procedures
- ✓ Be Alert for Nesting or Recoil Features of Machinery Upon Power Isolation
- ✓ Identify if Victim is Entangled or Impaled
- ✓ Utilize Hand Tools to Disassemble Equipment for Disentanglement
- ✓ Movement of Machine Parts Should Be Done By Hand
- ✓ Stabilize Victim with ALS Care – Be Alert to Crush Syndrome Circumstances
- ✓ Consider Stabilization Features of the Machinery – Use Cribbing, Jacks or Air Bags as Needed
- ✓ Frequently Rotate Response Personnel

Firehouse Software Evaluator Notes

Link to “General Training in the Rescue Section” of FHS

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