



Fire Protection Training

Procedures Handbook 4300

SALVAGE & OVERHAUL

TOPIC: Salvage And Overhaul Safety Considerations

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will list and describe safety considerations during salvage and overhaul operations.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Appropriate visual aids
- Audio visual equipment

REFERENCES:

- IFSTA, Salvage Operations, 7th Edition, Chapter 6
- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 12

PREPARATION:

Once a fire or portions of a fire have been contained, time is usually available to plan and organize safe salvage and overhaul activities. The plan should provide for the highest degree of safety and should if done properly expedite operations while enhancing the Department's public image.



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SALVAGE AND OVERHAUL
SAFETY CONSIDERATIONS

PRESENTATION	APPLICATION
<p>I. SAFETY CONSIDERATIONS</p> <p>A. Dangerous Building Conditions Should be Identified, Barricaded and/or Corrected</p> <ol style="list-style-type: none">1. Weakened floors due to fire2. Weakened ceilings<ol style="list-style-type: none">a. Fire damageb. Water collection3. Concrete spalled by intense heat4. Wood-framed stairways weakened by fire5. Deformed steel roof members (tensile strength is affected at about 500°F)6. Walls pushed outward<ol style="list-style-type: none">a. Due to elongation of steel roofb. Weakness of supporting member7. Mortar decomposed in brick joints due to excessive heat8. Gusset plates pulled out of roof trusses due to intense heat9. Sharp debris/rubble10. Wet, icy or slippery areas11. Live utilities12. Tripping hazards13. Consider heavy roof mounted equipment's effect on continued structural integrity	



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PRESENTATION	APPLICATION
<p>14. Chimneys present special falling hazards</p> <p>II. PERSONNEL CONSIDERATIONS</p> <p>A. Personal Protective Equipment Used</p> <ol style="list-style-type: none">1. Same possibility of injury exists during salvage and overhaul as during firefighting<ol style="list-style-type: none">a. Full protective clothing<ol style="list-style-type: none">(1) Turn out coat(2) Turn out pants(3) Boots(4) Gloves(5) Helmet(6) Eye protection(7) SCBA(8) Personal alarm safety system device2. Toxic atmospheres exist during salvage and overhaul operations<ol style="list-style-type: none">a. This is actually one of the worst times to remove S.C.B.A.b. Abundant presence of toxic gases due to incomplete combustionc. Accumulation of gases leftover from fired. The wearing of S.C.B.A. during salvage and overhaul operations should be strictly enforced	



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SALVAGE AND OVERHAUL SAFETY CONSIDERATIONS

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<p>3. Firefighters exhausted from firefighting operations are more susceptible to injury</p> <ul style="list-style-type: none"> a. Overhaul and salvage operations require hard work and should be commenced with fresh, alert crews <p>III. SALVAGE AND OVERHAUL SAFETY CONSIDERATIONS</p> <p>A. Routes</p> <ul style="list-style-type: none"> 1. Establish clear routes or traffic lanes when hauling debris out of a structure <p>B. Night-time Operations Require Lights</p> <ul style="list-style-type: none"> 1. Lights should be placed to illuminate <ul style="list-style-type: none"> a. Tripping hazards b. Holes c. Stairways and d. Other danger areas <p>C. Prior to Pulling Ceilings and Walls:</p> <ul style="list-style-type: none"> 1. Make sure the area is clear of personnel 2. Ensure portion of structure being pulled is not too large 	<p>Why should firefighters pace themselves during overhaul operations?</p> <p>Why should fresh personnel be used for overhaul operations?</p>



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<ul style="list-style-type: none">3. Do not freelance, pull structural members only in an effort coordinated and approved by the incident commander4. Exercise care not to inadvertently contact an energized electrical line in a concealed space5. Exercise care not to break water lines<ul style="list-style-type: none">a. Thereby increasing the amount of water damageb. Thereby creating slip and fall hazards	



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SUMMARY:

Salvage and overhaul procedures require careful preparation before they are performed. Their success or failure can be directly attributed to the degree of planning and the degree to which firefighters follow appropriate safety guidelines.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).