



Fire Protection Training

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

TOPIC: Spanner Wrenches

TIME FRAME: 15 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will list and describe the basic use, care, maintenance, and safety precautions associated with spanner wrenches.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Several types of spanner wrenches
- Hose couplings
- Gas valve
- Chalk or dry erase board
- Appropriate visual aids
- Audio visual equipment

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10

PREPARATION:

One characteristic of fire service tools is that they be designed to accomplish multiple tasks. The spanner wrench is representative of this type of tool. Though compact and lightweight, it is a hose tool, an extrication tool, and a forcible entry tool.



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SPANNER WRENCHES

PRESENTATION	APPLICATION
<p>I. TYPES OF SPANNER WRENCHES</p> <ul style="list-style-type: none">A. Universal SpannerB. Pocket SpannerC. Forestry SpannerD. Ratchet Spanner <p>II. FUNCTIONS</p> <ul style="list-style-type: none">A. As a Hose Tool<ul style="list-style-type: none">1. The primary use of a spanner wrench is to tighten hose<ul style="list-style-type: none">a. Rocker lugb. Recessed lugc. Pin lug2. Also used to loosen tight couplings3. Two spanners are needed for most coupling operationsB. As a Forcible Entry Tool<ul style="list-style-type: none">1. To pry open doors and windows2. To lift objects barring access to an area3. To break glassC. As a Extrication Device<ul style="list-style-type: none">1. To pry objects apart or away from entangled body parts2. To gain access to victim	



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<p>D. As a Utility Control Device</p> <ol style="list-style-type: none">1. To open and close utility valves<ol style="list-style-type: none">a. Gasb. Water <p>E. As a Last Resort as a Hammer to Force Otherwise Immovable Objects</p> <ol style="list-style-type: none">1. Universal spanner has a surface designed for this purpose2. Other spanners of limited value as a hammer due to the lack of weight and mass <p>III. SAFETY PRECAUTIONS</p> <p>A. General</p> <ol style="list-style-type: none">1. Wear gloves and eye protection when using2. Grip securely to minimize chance of slipping3. Protect victim from glass and debris anticipated during extrication or forcible entry operations <p>B. Use the Right Tool for the Job</p> <ol style="list-style-type: none">1. Spanner is not a substitute for all other firefighting tools2. Some spanners are not multi-faceted (for example, the forestry spanner) <p>IV. CARE AND MAINTENANCE</p> <p>A. Subject to Metal Fatigue</p> <ol style="list-style-type: none">1. Inspect for<ol style="list-style-type: none">a. Cracks	



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<ul style="list-style-type: none">b. Burrsc. Chipsd. Nicks <p>2. Repair or replace as required</p> <p>B. Clean After Each Use</p> <ul style="list-style-type: none">1. Ensures optimum performance2. Exposes defects3. Exposes rust	

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SPANNER WRENCHES

SUMMARY:

The spanner wrench is extremely versatile. It can be used with great success when tightening or loosening couplings, extricating victims, forcing doors and windows and controlling utilities. If necessity is the Mother of Invention, this tool is one of necessity's offspring.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).