



# FIRE PROTECTION TRAINING

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

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**TOPIC:** Spanner Wrenches

**TIME FRAME:** :10

**LEVEL OF INSTRUCTION:** Level I

**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 80% accuracy

**MATERIALS NEEDED:**

- Several types of spanner wrenches
- Hose couplings
- Gas valve
- Dry erase boarder/erasable markers
- Appropriate visual aids
- Audio visual equipment

**REFERENCES:**

- IFSTA, Essentials of Fire Fighting, 5<sup>th</sup> Edition, Chapter 13, Page 651

**PREPARATION:**

Fire service tools are designed to accomplish multiple tasks. The spanner wrench is representative of this type of tool. Although 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><b>I. TYPES OF SPANNER WRENCHES</b></p> <ul style="list-style-type: none"><li>A. Universal spanner</li><li>B. Pocket spanner</li><li>C. Forestry spanner</li><li>D. Ratchet spanner</li><li>E. Others such as Barway, Storz, etc.</li></ul> <p><b>II. FUNCTIONS</b></p> <p><b>A. UNIVERSAL SPANNER WRENCH</b></p> <ul style="list-style-type: none"><li>B. As a hose tool<ul style="list-style-type: none"><li>1. The primary use of a spanner wrench is to tighten and loosen couplings<ul style="list-style-type: none"><li>a. Rocker lug</li><li>b. Recessed lug</li><li>c. Pin lug</li></ul></li><li>2. Two spanners are needed for most coupling operations</li></ul></li><li>C. As a forcible entry tool<ul style="list-style-type: none"><li>1. To pry open doors and windows</li><li>2. To lift objects barring access to an area</li><li>3. To break glass</li></ul></li><li>D. As a extrication device<ul style="list-style-type: none"><li>1. To pry objects apart or away from entangled body parts</li></ul></li></ul>	



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<ul style="list-style-type: none"><li>2. To gain access to a victim</li><li>E. As a utility control device<ul style="list-style-type: none"><li>1. To open and close utility valves<ul style="list-style-type: none"><li>a. Gas</li><li>b. Water</li></ul></li></ul></li><li>F. As a last resort, a hammer to force otherwise immovable objects<ul style="list-style-type: none"><li>1. Universal spanner has a surface designed for this purpose</li><li>2. Other spanners have limited value as a hammer due to the lack of weight and mass</li></ul></li></ul> <p><b>III. SAFETY PRECAUTIONS</b></p> <ul style="list-style-type: none"><li>A. General<ul style="list-style-type: none"><li>1. Wear gloves and eye protection when using</li><li>2. Grip securely to minimize chance of slipping</li><li>3. Protect victim from glass and debris anticipated during extrication or forcible entry operations</li></ul></li><li>B. Use the right tool for the job<ul style="list-style-type: none"><li>1. Spanner is not a substitute for other firefighting tools</li><li>2. Some spanners are not multi-faceted (for example, the forestry spanner)</li></ul></li></ul> <p><b>IV. CARE AND MAINTENANCE</b></p> <ul style="list-style-type: none"><li>A. Subject to metal fatigue<ul style="list-style-type: none"><li>1. Inspect for</li></ul></li></ul>	



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<ul style="list-style-type: none"><li>a. Cracks</li><li>b. Burrs</li><li>c. Chips</li><li>d. Nicks</li></ul> <p>2. Repair or replace as required</p> <p>B. Clean after each use</p> <ul style="list-style-type: none"><li>1. Ensures optimum performance</li><li>2. Exposes defects</li><li>3. Exposes rust</li></ul>	



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SPANNER WRENCHES

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## ***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.

## ***EVALUATION:***

A written quiz.

## ***ASSIGNMENT:***

To be determined by instructor(s).