**Revak Jr. Act Off-Site Day 1**

**Instructor Revak**  **Date 19-20**

**Program/Class ACT**  **Period**

**State Indicator/Competency:**

Properly spray gun and related equipment

Competency 28.3 descriptor 28.3.1-28.3.3

**Materials:**

Text book pg123

**Method of Instruction:**

Lecture

**Activities:**

1 **Spray guns** are used to apply sealer, primer, paint, and other liquid finishing materials to a vehicle. Spray guns must atomize the liquid; often paint, so that it flows onto the body surface smoothly and evenly.

A spray gun *atomizes* a liquid by breaking it into a fine mist of droplets. This requires sufficient pressure and vol­ume at the gun, which can be powered by air or electric energy, although air is more common.

2 **The *gun body***holds the parts that meter air and liquid. The body holds the spray pattern adjustment valve, fluid control valve, air cap, fluid tip, trigger, and related parts.

3 **The *spray gun cup***attaches to the gun body to hold the material to be sprayed. The cup often fits against a rubber seal to prevent leakage. Another seal is mounted or formed in the lid to prevent leakage around the top of the cup.

4 **The spray gun's *fluid control valve*** can be turned to ad­just the amount of paint or other material emitted. It con­sists of a thumbscrew or knob, needle valve, and spring. Turning the knob affects how far the trigger pulls the needle valve open. The *fluid needle valve* is seated in the fluid tip to prevent flow or can be pulled back to allow flow.

5 **The spray gun's *air control valve****,* or *spreader valve,* controls how much air flows out of the air cap side jets. It has an *air needle* that can be slid back and forth to open or close the air valve.

6 ***Spray gun trigger***can be pulled to open both the fluid and air valves. It uses lever action to pull back on the needle valves.

7 **The *spray gun air cap*** works with the air valve to con­trol the spray pattern of the paint. It screws over the front of the gun head.

**Assessment:**

10pts.

Off-site day 1 ACT- SPRAY GUNS PG.123

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* **Spray guns** must **atomize** the liquid; often paint, so that it flows onto the body surface smoothly and evenly.
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* This requires sufficient pressure and vol­ume at the gun, which can be powered by air or electric energy, although air is more common.

2 The  holds the parts that meter air and liquid

* The **gun body** holds the spray pattern adjustment valve, fluid control valve, air cap, fluid tip, trigger, and related parts.

3 **The *spray*** attaches to the gun body to hold the material to be sprayed.

* The **spray gun cup** often fits against a rubber seal to prevent leakage.
* Another seal is mounted or formed in the lid to prevent leakage around the top of the cup.

4 **The spray guns** can be turned to ad­just the amount of paint or other material emitted.

* It con­sists of a thumbscrew or knob, needle valve, and spring.
* Turning the knob affects how far the trigger pulls the needle valve open.
* The *fluid needle valve* is seated in the fluid tip to prevent flow or can be pulled back to allow flow.

5 **The spray gun's**or *spreader valve,*

* Controls how much air flows out of the air cap side jets.
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* It uses lever action to pull back on the needle valves.

7 **The *spray gun*** works with the air valve to con­trol the spray pattern of the paint.

* It screws over the front of the gun head.