**Objective: Use portable circular power saws safely.**

**Trainer’s Note**

Portable circular power saws are powerful but dangerous tools. For this module:

 • Discuss the information below on keeping the workplace and saws safe. Present safe work
 practices.

 • Discuss the hazards involved with using power saws and how these hazards can be avoided.

 • Hold this session in the shop. Demonstrate safe practices to workers.

 • Supervise workers carefully as they practice safe practices.

 • Review the important points.

 • Have workers take the True/False quiz to check their learning.

**Background**

Portable circular power saws can be used in various landscaping and horticulture tasks:

* Constructing raised garden beds.
* Constructing cold frames.
* Performing greenhouse maintenance or repairs.

**Keep the Work Area Safe**

* Keep extension cords out of water.
* Keep work area free of clutter and debris.
* Use proper lighting.
* Have adequate ventilation.

**What Makes a Saw Safe?**

* Sharp blades.
* A three-conductor plug, unless it is double insulated.
* Properly functioning rubber-coated extension cords without cuts, tears, or breaks in the outer coating.
* Properly functioning guards that enclose the portion of the blade above and below the material being cut.

**Portable power saw guards** should be able to move freely and should almost totally enclose the blade except when a cut is being made. Then the guard should rotate to allow the blade to be exposed while making the cut. However, the portion of the blade extending below the material being cut will not be covered by a guard. The depth of the cut should be adjusted to limit the amount of blade extending through the material being cut to 1/2 inch or less.

**Follow Safe Work Practices**

* Wear eye protection.
* Use appropriate protection when cutting wood treated with chemicals like arsenic — protective gloves, eye protection, or disposable dust mask.
* Replace dull or burned saw blades.
* Lift the saw from the cut after the blade stops.
* Carry the saw by the handle and use the handle to raise or lower the saw.
* Use the correct blade for the material being cut.
* Disconnect power before cleaning the saw, changing blades, or making adjustments.
* Use power hand saws appropriately.
* Place materials on a firm surface for cutting (not on hands, arms, across the knees or feet).
* Cut the materials beyond the end of a support so that the waste falls clear.
* Adjust the blade depth to limit the amount of blade exposed below the material being cut to 1/2 inch or less.

**Review These Important Points**

* Keep work areas clean and free of clutter.
* Always wear goggles or other eye protection.
* Use the correct blade for the material being cut.
* Carry the saw by the handle and keep fingers off the trigger switch.
* Make sure power saws are grounded with a three-prong conductor plug.
* Replace all damaged parts and cords.
* Make sure guards are in place and functioning.

**Verbal Quiz**

1. Eye protection is not necessary when using a power saw **T F**

2. If an extension cord is damaged, it should be replaced immediately. **T F**

3. Carry the saw by the handle and not with a finger on the switch trigger. **T F**

4. One blade can be used for all saw cuts. **T F**

5. Never use an arm or leg as a sawhorse. **T F**

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| Answer Key |
| 1 | F |
| 2 | T |
| 3 | T |
| 4 | F |
| 5 | T |