Safely Starting and Stopping a Tractor

Objective: Use safe procedures for starting and stopping a tractor.

How to Use This Module

Tractors are common vehicles in the green industries. For this module:

- Read the information below on safe starting and stopping practices.
- Ask your supervisor to demonstrate the safe techniques for starting and stopping a tractor.
- Ask your supervisor to observe as you practice safe starting and stopping practices.
- Review the important points.
- Take the True/False quiz to check your learning.

Note: Your supervisor might ride the tractor while you practice. However, a rider is allowed only for training purposes.

Background

Tractors are common and look easy to operate. However, accidents can happen if safety is not carefully observed.

Mounting the Tractor

Before mounting the tractor, make sure guards and shields are in place and in good working condition. Use provided handrails for mounting and dismounting. Adjust the operator’s seat for fit and easy access to controls.
Starting the Tractor

Before starting the engine, remember to:

- Place the gearshift lever in Neutral or Park.
- Place all hydraulic controls in Neutral.
- Disengage the power-take-off (PTO).
- Apply the brakes.
- Depress the clutch pedal.

Tractors will start in gear if normal starting circuitry is bypassed. Start the engine from the operator’s seat with the transmission in park. Do not start the engine by shorting across starter terminals. **Never** start the engine while you are standing on the ground.

If jumper cables are needed to start the engine, make sure polarity is correct. Reversed polarity will damage the electrical system. Always connect the positive cable first and then the negative cable. Escaping gas can cause an explosion. So, position the ground connection away from the battery. This will help keep sparks away from the battery. Follow the instructions in the tractor operator’s manual. Always wear eye protection when working around batteries.

Stopping the Tractor

Stopping the tractor safely involves more than just applying the brakes and turning off the engine. To avoid accidents:

- Lock the brake pedals together when driving.
- Apply the brakes evenly.
- Disengage the PTO.
- Lower all hydraulically powered equipment to the ground.
- Put the gearshift lever in Park or Neutral and set the brakes.
- Turn the ignition key off and remove it to prevent tampering or accidental starting.

Additional Safety Hints

- Keep a copy of the operator’s manual on the tractor or close by.
- To prevent falls, keep the operator station free of oil, grease, mud, and tools.
- Keep trash away from the exhaust system to prevent a fire.
- Keep tires properly inflated.
- Maintain control lights and gauges.
- Ventilate to avoid asphyxiation when operating tractors indoors.

Review These Important Points

- **No riders** (except for specific training purposes).
- Never start the engine by shorting across starter terminals.
- When jump starting an engine, avoid sparks around the battery and wear eye protection.
- Always apply brakes evenly and disengage the PTO before stopping the tractor.
- Lock the brake pedals together when driving.

**About These Modules**

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Answer Key: 1 = T, 2 = T, 3 = T, 4 = T, 5 = F.
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Name____________________________________

True or False?

1. Never start the engine by shorting across starter terminals.  T  F

2. If jumper cables are needed to start the engine, avoid sparks around the battery.  T  F

3. Follow the instructions in the operator’s manual.  T  F

4. Never start the engine when standing on the ground.  T  F

5. To stop the tractor, just apply the brakes and quickly shut off the engine.  T  F