

INSTRUCTOR GUIDE 1

STUDENTS ARE REQUIRED TO IDENTIFY:

- Cab
- Lift Arm
- Hydraulic line
- Tires
- Drive Motor Access
- Axles/Wheels
- Cylinders
- Coupler
- Bucket
- Rear Window
- Safe Entry Grab Handle
- Non-skid Foot Step
- Drivers' Seat
- Exhaust Pipe
- Engine Compartment Access
- Engine Fan
- Grease Points
- Overhead Controls - Parking Brake
- Overhead Controls - Start
- Overhead Controls - Stop
- Overhead Controls - Lock
- Overhead Controls - Throttle
- Left Joystick - Forward and Reverse
- Left Joystick - Left and Right
- Right Joystick - Tilt bucket Up and Down
- Right Joystick - Raise and Lower Bucket

1 - PRIOR TO THE CHECK OFF:

- Review each of the items and show location on skid steer.
- Give an overview of each item and its function.

2 - PRACTICE SKILLS PRIOR TO ASSESSMENT:


- Allow students to practice skills while others are assessed

3 - DURING LAB PERFORMANCE:

- Present student with questions that have real life job applications.
- What should you be sure to do when going over the equipment?
- What are some important things to know about the the equipment?
- Present student with real life job scenarios and ask for solutions.

4 - ONCE ALL STUDENTS HAVE COMPLETED THE TASKS

- Check off skills with completed tasks
- Send student to the next station when available

***Student must receive at least 14  to complete this lab station.* (80%)**

INSTRUCTOR GUIDE 2


STUDENTS ARE REQUIRED TO PERFORM:

External Pre-Check

- Check wheels/tracks are free of debris and check for damage.
- Check the tires for wear.
- Check the following for damage and/or leaks and all connections are secure.
 - Hydraulic connections
 - Hydraulic cylinders
- Check for damage and/or leaks and all connections are secure.
 - Arms
 - Cage
 - Bucket
- Check grease points and note how frequently grease should be reapplied.
- Check undercarriage for damage. Look under and around the machine for leaks, debris, and obstructions.

Engine Pre-Check

- Check the following fluid levels:
 - Coolant (large reservoir)
 - Engine oil (dipstick)
 - Hydraulic fluid (orange lid)
 - Diesel exhaust fluid (DEF)
- Check under and around the machine for leaks, debris, and obstructions.
- Check Filters - Check the filters for signs of damage or leaking.
- Check Engine Compartment - Look for damage and/or leaks. Check that all connections are secure. Remove any junk that made it into the engine compartment
- Check Belts - Alternator, fan, etc. for damage. from the job site.

***Student must receive at least 14  to complete this lab station.* (80%)**

INSTRUCTOR GUIDE 2 (cont'd)

1 - PRIOR TO THE CHECK-OFF:

- Review each of tasks and show location on skid steer.
- Give an overview of each task and its purpose for performance.

2 - PRACTICE SKILLS PRIOR TO ASSESSMENT:

- Allow students to practice skills while others are assessed

3 - DURING LAB PERFORMANCE:


- Present student with questions that have real life job applications.
- What should you be sure to do when going over the equipment?
- What are some important things to know about the the equipment?
- Present student with real life job scenarios and ask for solutions.

4 - ONCE ALL STUDENTS HAVE COMPLETED THE TASKS

- Check off skills with completed tasks
- Send student to the next station when available

Points to make

- A machine can be crippled by the inefficiency of the tires or tracks it sits on.
- Hydraulic leaks are a common problem. If this occurs, you may need to change your fluid reservoir, check your fittings, or replace your hoses.
- If the bucket is worn or broken, the machine will run less efficiently, use more fuel, and wear out more parts.
- If joints and friction points are not properly greased, they can be damaged by moisture and abrasive materials on the job site.
- If you spot a leak or pool of fluid, it's a good idea to identify the source of that fluid and fix it before operation.
- How all of the checks are important to an employer.

***Student must receive at least 16  to complete this lab station.* (80%)**

INSTRUCTOR GUIDE 3

1 - PRIOR TO THE CHECK-OFF DISCUSS AND/OR DEMONSTRATE:

- Properly wear a hard hat, boots, and eye protection
- Explain the Zone of Protection
- 3 Points of Contact
- Use of handholds
- Use of safety belt
- Safety situations
- Lower arms to exit
- Center of gravity & Weight Limit
- Work on Slopes
- Barricades
- Buried utilities
- Crush points

2 - PRACTICE SKILLS PRIOR TO ASSESSMENT:


- Allow students to practice skills while others are assessed

3 - DURING LAB PERFORMANCE:

- Present student with questions that have real life job applications.
- What should you be sure to do to keep yourself and others safe?
- What are some important things to know about working around traffic?
- What are some important things to know about working around electrical?
- Present student with real life job scenarios and ask for solutions.

4 - ONCE ALL STUDENTS HAVE COMPLETED THE TASKS

- Check off skills with completed tasks
- Send student to the next station when available

***Student must receive at least 7  to complete this lab station.* (80%)**

INSTRUCTOR GUIDE 4

1 - Students participate in driving activities maneuvering around barricades and operating in forward, reverse, left, and right.

- Use joystick to drive forward
- Use joystick to reverse
- Use joystick to turn left
- Use joystick to turn right

2 - PRACTICE SKILLS PRIOR TO ASSESSMENT:


- Allow students to practice skills while others are assessed with an additional spotter or instructor available.

3 - DURING LAB PERFORMANCE:

- How is driving or operating affected by the materials being loaded or moved? (concrete versus sand)
- How is driving or operating affected by the slope?
- What is the safe speed for the environment and/or materials being moved?
- Being aware of surroundings/area and assessing for hazards.

4 - ONCE ALL STUDENTS HAVE COMPLETED THE TASKS

- Check off skills with completed tasks

***Student must receive at least 12  to complete this lab station.* (80%)**

INSTRUCTOR GUIDE 5

1 - Students will participate in bucket operations and maneuvering. Students will move materials (approach, pickup/load, maneuver, deliver)

- Position loader so the bucket is headed straight into pile
- Raise the boom
- Curl the bucket back
- Reverse out of pile
- Move back toward the pile
- Raise the boom
- Dump the bucket

2 - PRACTICE SKILLS PRIOR TO ASSESSMENT:

- Allow students to practice skills while others are assessed with an additional spotter or instructor available.

3 - DURING LAB PERFORMANCE:

- Best bucket angle and height when approaching material?
- Think about the ground surface and how it affects the operation. Discuss
- When raising a loaded bucket - discuss the needed angle of the bucket.
- Discuss hazards of bucket movement and loads.
- Present students with real-life job scenarios and ask for solutions.

4 - ONCE ALL STUDENTS HAVE COMPLETED THE TASKS

- Check off skills with completed tasks
- Send student to the next station when available

***Student must receive at least 14  to complete this lab station.* (80%)**