

BULLDOZER

This Evaluation Guide for Skills Demonstration is to be used in the evaluation of an operator for certification on the specific piece of equipment stated above. It is intended that this Guide be followed closely during an evaluation, and the operator is expected to demonstrate competency in each of the items listed. However, variances may be made in some situations when, in the opinion of an evaluator, site conditions, operational constraints or the demonstrated skill of the operator requires that an item(s) be deleted or added to ensure a comprehensive evaluation. Documentation of any variance in the evaluation, and documentation of satisfactory completion of the evaluation and subsequent certification is to be made on the appropriate Certification Form.

1. Performs a thorough pre-op inspection and daily/weekly preventive maintenance, as needed

- Visually inspects exterior of machine for loose, leaking, hanging, or broken parts
- Enters cab using steps and grab handles for safety (3 point climbing procedure)
- Removes keys from ignition for safety
- Ensures that parking brake is applied
- Ensures that transmission is in neutral or lowest forward gear or reverse, as per policy
- Ensures that battery disconnect is turned off
- Checks that R297g is in the vehicle
- Reviews R297g for prior failures
- Completes R297g correctly (see attached Preventive Maintenance Checklist for relevant items)
- Makes note of deficiencies on EM3; completes EM3 correctly
- Performs general safety checks including unsecured objects
- Inspects the following machine components
 - Engine: Checks Fluid Levels/Filters
 - * Radiator
 - * Crank case
 - * Battery
 - * Fuel tank
 - * Transmission
 - * Hydraulic fluid (with all cylinders collapsed as much as possible)
 - * Fuel/oil/hydraulic/air filters clean, not leaking
 - * Differentials
 - * Planetary axles
 - Exterior
 - * Checks for final drive leaks
 - * Checks for leaks in transmission and drive shaft
 - * Checks for damaged or leaking hydraulic cylinders

- * Inspects tracks for excessive wear, loose pads, worn sprockets, suspension, bolt and master link; adjusts or replaces as necessary
- * Inspects blade assembly and winch assembly for damage and lubricates
- * Inspects Roll Over Protection (ROPS)
- * Checks that all covers and guards are securely in place
- * Checks rear safety screen for proper installation (if equipped with a winch)
- * Checks lights, warning lights, and reflectors are clean and intact, properly attached and operating correctly
- * Checks exhaust system for damage or leaks
- Interior
 - * Performs general safety check including unsecured objects
 - * Inspects presence and condition of seat belts and other safety equipment, including horn, charged and secured fire extinguisher and first aid kit
 - * Inspects instrument panel, including gauges and fuel pressure gauge
 - * Inspects and adjusts mirrors
- Checks that warning and safety decals are in place, reports missing or defaced decals
- Distinguishes when vehicle should not be operated
- Verifies vehicle is safe to operate
- States all safety warnings for machine

2. **Starts and idles equipment properly**

- Adjusts operator's seat
- Engages battery disconnect
- Fastens seat belt
- Places transmission lever in neutral
- Turns on ignition switch
- Checks all gauges for working condition
- Tests back-up alarm and/or horn
- Makes sure neutral locking switch is engaged and working properly
- Starts engine
- Re-checks all gauges when engine starts
- Warms engine to operating temperature at low idle
- Checks controls and levers for proper operation
 - lift arms
 - blade tilt
 - blade angle
- Test brakes by moving slightly forward and applying foot brakes, and reversing transmission and applying foot brake
- Tests parking brake by engaging foot brakes, locking parking brake, placing transmission in gear, and releasing foot brakes

- Follows parking brake procedure for equipment
- Engages foot brakes and releases parking brake while transmission is in gear to make sure parking brake releases

3. Prepares work site and performs test operations on machine

- Makes sure excavation approvals have been obtained, including contacting underground utilities
- Makes sure all personnel are clear of machine
- Inspects area
- Is aware of hazards such as overhead and underground wires, ditches, etc.
- Checks steering
- Lowers blade, adjusts angle and tilts for the task involved
- Select speed for the task involved
- Engages transmission in forward gear

A SKILLS DEMONSTRATION IS TO INCLUDE BETWEEN ONE (1) AND THREE (3) OF THE FOLLOWING FOUR (4) ACTIVITIES (NOS. 4 - 7) AT THE DISCRETION OF THE EVALUATION COMMITTEE:

4. Cuts slopes and builds stockpiles

- Takes grade of slope into consideration and positions machine sideways on slope
- Tilts blade
- Makes first pass (cut) at top of slope
- Makes additional passes moving material from high to low
- Proceeds to stockpile area
- Builds stockpile by pushing material forward as well as pushing to the left and right slightly to develop a ramp
- Determines the size (width and depth) of finished stockpile by judging the amount of material to be stockpiled

5. Grades and levels a site

- Adjusts blade to proper height for material being moved
- Pushes material without overworking machine
- Moves a full blade of material without excessive track slippage
- Graded site is level and without a washboard surface

6. Cuts a ditch or cleans a channel

- Removes material from the ditch such that the finished surface forms a channel that allows water to flow freely

- Maneuvers machine with a reasonable amount of efficiency
- Adjusts methods of removing material to accommodate varying site conditions (e.g., works across ditch or along ditch according to available working room, site topography, etc.)

7. Uses machine to grub a site

- Clears saplings, rocks and debris from the site safely and efficiently
- Sets blade height, angle and tilt to remove brush and other surface material to the proper depth

8. Parks, secures and cleans dozer

- Parks, secures and cleans machine daily
- Completes all necessary paperwork (ie., equipment report, R 297g, etc.)
- During periods when the ground may freeze, parks dozer on planks or tires on dry ground