

## Dump Truck, Heavy

*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. Holds a valid class B Commercial Driver License with air brake endorsement**

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

- A. Removes keys from ignition for safety
- B. Checks that parking brake is on
- C. Checks that R 297g is in the vehicle
- D. Reviews R 297g for prior failures
- E. Completes R297g correctly (see attached Preventive Maintenance Checklist for relevant items)
- F. Makes note of deficiencies on EM3; completes EM3 correctly
- G. Checks that warning and safety decals are in place
- H. Distinguishes when vehicle should not be operated
- I. Verifies vehicle is safe to operate
- J. States all safety warnings for machine

### **3. Engine**

- A. Checks oil, coolant, power steering, and window washer levels (and fills as needed)
- B. Checks the radiator fins for cracks, distortion, debris and any signs of leakage
- C. Checks fan for presence and distortion
- D. Checks air restriction indicator (monometer) cleans dust valve daily
- E. Checks that oil and fuel filters are in good condition, secured tight, and without leaks
- F. Checks batteries for corrosion and to be properly secured
- G. Checks that shutters are not bent and are free from debris, if applicable
- H. Inspects condition and tightness of belts
- I. Checks Air Induction and Cooling for presence and tightness, if applicable
- J. Checks turbo charger for leaks and cracks, if applicable

#### 4. Steering, Suspension

- A. Checks springs and spring hangers for presence and damage
- B. Checks that shocks are properly attached, are not damaged and are not leaking
- C. Inspects pitman arm, drag link and tie rod ends for tightness
- D. Checks power steering assist cylinder and steering box for leaks and that it is secured to frame
- E. Checks tires for tread depth, proper inflation and obvious defects
- F. Checks wheels/rims for tightness, cracks, valve stem alignment, slippage or any damaged, broken or missing parts
- G. Checks wheel hub for proper lube levels

#### 5. Rear Axle and Suspension

- A. Checks springs and spring hangers for presence and damage
- B. Inspects drive shaft visually for damage, debris or any sign of failure
- C. Checks differential and wheel seals for leaks
- D. Checks for presence and condition of axle vent
- E. Checks tires for tread depth, proper inflation and obvious defects
- F. Checks wheels/rims for tightness, cracks, valve stem alignment, slippage or any damaged, broken or missing parts
- G. Checks between dual wheels for any foreign materials, misalignment or any hidden damage
- H. Checks rock and mud flaps for presence and condition

#### 6. Exterior

- A. Checks fuel tank for damage or leaks and fuel level
- B. Checks that lights, warning lights, and reflectors are clean and intact, properly attached, and operating correctly
- C. Checks exhaust system for damage or leaks
- D. Checks tailgate trip mechanism for proper adjustment and operation
- E. Checks pintle hitch for proper operation
- F. Checks that truck tool box is secured and has safety triangles
- G. Checks air tanks and dryers for any broken, loose or damaged parts
- H. Checks power take off (PTO) system visually for leaks and any broken, damaged or missing parts

#### 7. Cab Interior

- A. Enters cab using steps and grab handles for safety (3 point climbing procedure)
- B. Performs general safety check including unsecured objects
- C. Describes functions of controls
- D. Inspects presence and condition of seat belts and other safety equipment, including horn, charged and secured fire extinguisher, first aid kit and emergency triangles, if applicable
- E. Inspects for excessive free play in the steering wheel
- F. Inspects for 1 - 1/2 inches clutch free play (if applicable)
- G. Inspects for clean and undamaged glass and mirrors, working wipers/washers and heater/defroster

- H. Checks two-way radio for proper adjustment and operation
- I. Demonstrates an entire Air Brake check of the system, including how to check parking and service brakes (i.e.: low air warning - maximum air loss for service brake, automatic parking brake application)

## **8. Starts and idles the vehicle properly**

- A. Opens garage door as required
- B. Enters cab using steps and grab handles for safety (3 point climbing procedure)
- C. Adjusts seat, mirrors and fastens seat belt
- D. Starts engine
- E. Checks instrument readings and verifies proper ranges
- F. Allows engine to warm up in proper range of RPMs (never above yellow on tachometer)
- G. Yields right-of-way
- H. Performs brake system check according to CDL guidelines
- I. Rechecks instrument readings

## **9. Puts vehicle in motion safely and smoothly**

- A. Looks around before putting vehicle in motion
- B. Releases brake
- C. Properly engages the clutch using the clutch brake to eliminate grinding
- D. Prevents vehicle rollback
- E. Accelerates smoothly
- F. Tests brakes after putting vehicle in motion
- G. Does not "ride" clutch
- H. Does not slip clutch unnecessarily
- I. Does not stall engine
- J. Does not Does not "slip" the clutch to start the truck in motion, change gears or prevent rollback
- K. Does not start moving while in high range

## **10. Shifts transmission smoothly and efficiently**

- A. Does not "ride" clutch
- B. Does not stall engine
- C. Does not engage the clutch brake while vehicle is in motion
- D. Shifts each gear within proper RPM range
- E. Synchronizes transmission by double-clutching smoothly
- F. Accelerates vehicle by up-shifting properly and in sequence
- G. Decelerates vehicle by down-shifting properly and in sequence
- H. Does not coast vehicle
- I. Selects proper gear, ascending grade
- J. Selects proper gear, descending grade
- K. Keeps vehicle under engine-governed speed
- L. Keeps vehicle under control while shifting gears

- M. Keeps eyes on road when shifting gears

### **11. Drives on roadway safely and properly, observing all traffic laws**

- A. Maintains safe following distance (3 second rule) when appropriate
- B. Maintains uniform vehicle speed
- C. Keeps vehicle centered in lane
- D. Does not change lanes unnecessarily
- E. Maintains proper hold on steering wheel
- F. Avoids obstructions on highway
- G. Keeps vehicle in the driving lane on hills and curves
- H. Obeys traffic and speed laws
- I. Is aware of weight limits, overhead clearances and other hazards to large trucks
- J. Is alert to traffic ahead, behind and on either side
- K. Anticipates stops well in advance (slows down, downshifts as necessary)
- L. Applies brakes when required and in a smooth motion
- M. Does not ride the brake pedal
- N. Uses engine, jake brake properly
- O. Uses proper speed for existing road conditions

### **12. Passes other vehicles safely, legally, and only when necessary**

- A. Maintains proper distance according to CDL Manual, pages 2-7, prior to passing
- B. Checks conditions ahead, behind and blind spots
- C. Properly signals to pass
- D. Moves smoothly into passing lane
- E. Sounds horn when necessary
- F. Uses lights to signal passing maneuver if visibility is poor
- G. Checks conditions behind before moving into right lane
- H. Signals change from passing lane to right lane
- I. Moves smoothly into right lane
- J. Resumes normal driving speed
- K. Does not pass unnecessarily
- L. Does not pass in illegal zone

### **13. Properly turns vehicle**

- A. Positions vehicle in proper lane
- B. Gives proper signal
- C. Selects proper gear to negotiate turn
- D. Selects proper speed prior to turn
- E. Checks traffic and conditions on all sides

- F. Yields right-of-way
- G. Wheels remain on pavement by properly judging turning distance
- H. Does not cross centerline during (normal) left hand turn (CDL Manual page 2-30/31)
- I. Turns wide to complete (normal) right hand turn (CDL Manual page 2-30)
- J. Completes turn smoothly

#### **14. Proceeds through intersection properly**

- A. Approaches intersection in proper gear and at proper speed
- B. Uses correct lane; follows all lane markings
- C. Anticipates signal light changes
- D. Obeys traffic rules
- E. Yields to pedestrians
- F. Yields to other vehicles having right of way
- G. Checks conditions in all directions
- H. Stops smoothly
- I. Starts smoothly

#### **15. Proceeds through railroad crossing properly**

- A. Obeys signs and signals
- B. Looks in both directions of track in time to stop, if necessary
- C. Stops when required
- D. Stops at proper distance (15 to 50 feet) if applicable
- E. Stops in proper lane
- F. Crosses tracks at proper speed
- G. Crosses tracks in proper gear
- H. Does not shift in the crossing area

#### **16. Follows safe backing procedures**

- A. Avoids backing whenever possible
- B. States backing policy
- C. Avoids backing onto highway
- D. Positions truck correctly before backing
- E. Exits vehicle and checks area around vehicle prior to backing
- F. Asks for a "backer" to assist in the backing maneuver
- G. Gets out and re-checks behind the truck when in doubt, if necessary
- H. Sounds horn three times
- I. Backs up in low range only
- J. Steers smoothly
- K. Does not slip clutch unnecessarily
- L. Maintains clearance on both sides and overhead while backing
- M. Uses all mirrors while backing

**17. Transports and dumps material correctly**

- A. States Department's overhead wire policy
- B. Checks for and removes loose material and debris after loading
- C. Covers load properly before transporting
- D. Backs up to within 2 to 3 feet of pile
- E. Rolls canvass
- F. Properly engages PTO (if applicable)
- G. Releases tailgate (if applicable)
- H. Raises dump body, dumps material
- I. After dumping, does not drive ahead more than 3 to 4 feet with dump body raised
- J. Does not damage mud flaps
- K. Does not bang tailgate unnecessarily
- L. Lowers body before moving vehicle
- M. Rehooks tailgate
- N. Rechecks for loose material and debris

**18. Operates vehicles safely while towing equipment**

- A. Inspects pintle hook for condition; lubricates, if necessary
- B. Secures equipment properly
- C. Connects safety chains properly
- D. Joins electrical connections from dump to trailer, checks that lights are working
- E. Keeps vehicle and trailer in the travel lane while turning
- F. Operates vehicle and trailer on roadway in a safe manner
- G. Backs vehicle and trailer a reasonable distance without excessive maneuvering
- H. Demonstrates ability to communicate and follow directions from spotter

**19. Parks and shuts down vehicle**

- A. Parks in proper location
- B. Places transmission in proper gear
- C. Sets parking brake according to Parking Policy (neutral gear inside, lowest gear or reverse outside)
- D. Lowers all attachments to the ground
- E. Uses proper engine shutdown procedure (idles vehicle 3-5 minutes)
- F. Exits cab properly using 3 point contact and grab handles for safety
- G. Cleans and secures vehicle as appropriate
- H. Completes Post Operational check according to Local Policy
- I. Completes all necessary paperwork (i.e.: equipment report, R 297g, VTR, if applicable)