

# WISCONSIN COUNTY HIGHWAY DEPARTMENT



## EQUIPMENT CERTIFICATION SKILLS TEST

### FRONT END LOADER MMC CLASS 204 through 209

#### SUCCESSFUL FIELD CERTIFICATION

I, \_\_\_\_\_ (field Instructor), CERTIFY THAT ON \_\_\_\_\_  
(Date) THIS EMPLOYEE \_\_\_\_\_ OF \_\_\_\_\_  
COUNTY, WISCONSIN; SUCCESSFULLY COMPLETED THE WCHA  
EQUIPMENT OPERATOR SKILLS CERTIFICATION FOR THE ABOVE  
EQUIPMENT.

# **OPERATOR'S CHECKLIST FOR RUBBER TIRED FRONT END LOADERS**

## **1. Personal Protective Equipment (PPE):**

Properly equipped with hard hat, protective glasses, gloves, and steel safety toe boots, and other personal protective equipment as required by the job site or conditions

Do not wear loose fitting clothing or jewelry that can catch on machinery or moving parts

## **2. Performs a thorough pre-op inspection:**

### **Engine:**

Check engine fluid level/filters service:

- Radiator
- Crank case
- Fuel Tank
- Transmission
- Hydraulic Oil(s)
- Air Filters clean
- Locates Operator's Manual

### **Exterior:**

Visually inspects exterior of machine for loose, leaking, hanging, or broken parts

Visually inspects all hydraulic hoses and fittings for evidence of leaks or breaks

Visually checks hydraulic cylinders, pins, and bushings for damage or deformation

Checks tires for proper inflation, lug nuts and rims for obvious defects

Checks lights, warning lights and reflectors are clean and intact, properly attached and operating correctly

Make sure safety bar is in stored position

Checks dust bowl pre-cleaner

**Interior:**

Inspect Operator's area, steps, and hand holds are clean and free of grease, oil, snow, ice, dirt, mud, gravel, or other debris

Enters cab using 3-point climbing procedure

Performs general safety check including unsecured objects, removes all personal items from the operator's work space and secures in the cab or removes from the machine

Inspects presence and condition of seat belts and other safety equipment, including horn, charged and secured fire extinguisher

Inspects for clear and undamaged glass and mirrors and working wipers/washers

**3. Makes sure that the work site is suitable for loader operation:**

Checks area around work site for obstacles, smoothness, overhead wires and condition of pile

Identifies dangerous site conditions such as frozen berms, frozen overhangs on stockpiles, etc.

Verifies Digger's Hotline utility locations and markings (if necessary)

**4. Starts and idles equipment properly:**

Adjusts seat

Engages battery disconnect

Fastens seat belt

Verify parking brake is engaged and all controls are in the neutral position

Visually inspect all around machine for location of other personnel

Turn on ignition switch and checks all gauges for working condition

Starts engine and warms to operating temperature at low idle

Listens for malfunctions or erratic operational noises

Waits for hydraulic system to warm up before operating equipment

Checks operation of lift arms and bucket

Reviews function of all controls, gauges, and warning devices to verify function, location, and verify they are working properly

With transmission in neutral test engine speed controls for speed and direction prior to moving the machine

Run machine slowly through all ranges of motion to verify proper function, nothing caught or bound (including bucket)

Checks that moving alarms are working properly

Puts foot on brake pedal and releases parking brake

**5. Transports machine over-the-road to and from job site safely:**

Checks bucket is high enough to not strike ground and low enough to safely carry loads and not obstruct visibility

Locks individual wheel brakes together (if so equipped)

Checks that slow moving vehicle emblem is present, warning flashers and lights are properly functioning

Engages service brake and releases parking brake

Puts transmission into correct gear

Travels at a safe and appropriate speed

Properly traverses the terrain (travel up and down on inclines, slopes, and ramps, not diagonally or across)

**6. Makes sure that the work site is suitable for loader operation**

Makes sure all excavation approvals have been obtained, including contacting underground utilities (Diggers Hotline 1-800-242-8511)

Locates overhead wires, underground utilities - Recognizes various indicators of underground lines and pipes

Notes location of trees and other obstacles which may limit movements (never allow anyone within the hinge pinch area)

Identifies soft or unstable ground and makes appropriate accommodations

Identifies dangerous site conditions such as unstable or steep slopes

Keeps track of other personnel on the site

**7. Parks and shuts down machine properly:**

Stops machine with the service break

Parks vehicle in appropriate area

Lowers bucket to ground

Sets parking brake

Idles machine for 3-5 minutes at low idle (cool down period)

Turns off machine, cycles hydraulic controls, and removes keys

Disengage battery disconnect (if equipped)

Exits machine using 3-point climbing procedure

Cleans and secures vehicle as appropriate

# **SKILLS TESTS FOR RUBBER TIRED FRONT END LOADERS**

## **1. Serpentine Course:**

Starting at point “A” proceed through course

Bring machine to stop and lower bucket to ground at stake “B”. The bucket must be within 18” but not touching the 4’ high stake.

Shift machine into reverse and back through course from stake “B” to point “C”

## **2. Load dump truck:**

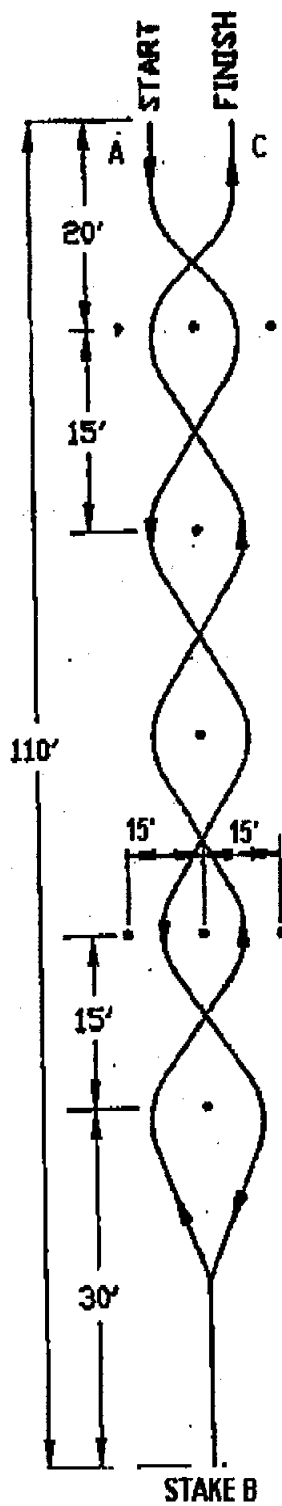
Position end loader at appropriate area near stockpile

Guide dump truck into correct loading position

Load dump truck with materials taken from stockpile

Unload dump truck

Properly scoop materials and distribute back to stockpile



## RUBBER TIRED FRONT END LOADER SERPENTINE COURSE

START AT POINT "A"

PULL UP TO AND STOP WITH LEADING  
EDGE OF BUCKET LESS THAN 18" BUT  
NOT TOUCHING STAKE "B"

SHIFT TO REVERSE AND BACK FROM  
STAKE "B" TO POINT "C"

# FRONT END LOADER SCORESHEET

EMPLOYEE STARTS COURSE WITH 100 POINTS – MUST RETAIN 80 TO PASS

	<u>Times deducted</u>	<u>Total</u>
1. Failed to inspect work area for hazards		<u>COURSE FAILURE</u>
2. Did not use 3 point climbing procedure (-5)		
3. Did not fasten seat belt		<u>COURSE FAILURE</u>
4. Did not allow time for proper engine warm-up (-3)		
5. Touched pylon (-5)		
6. Any part of loader comes in contact with truck (-5)		
7. Spilled load while dumping (-3)		
8. Excessive wheel slippage while loading bucket (-3)		
9. Failed to lower bucket close to ground (approx. one foot) to keep loader stable while moving to pile or transporting (-3)		
10. Excessive bouncing of loader while traveling (-3)		
11. Killed engine while working (-3)		
12. Failed to apply parking brake (-5)		
13. Failed to check rear before backing		<u>COURSE FAILURE</u>
14. Stopped machine with front of bucket farther than 18” from stake (-5)		
15. Hit stake (-5)		
16. Failed to lower bucket to ground before shutting down engine		<u>COURSE FAILURE</u>
17. Improper engine cool down period (-3)		
18. Failure to disconnect master switch (-3)		
19. Any other procedures not listed (-3)		

EMPLOYEE IS ALLOWED ONE RETRIAL FROM SCRATCH. IF 80% IS NOT ATTAINED ON SECOND RUN, THEN A TWO-WEEK INTERVAL MUST ELAPSE BEFORE A RETEST FOR CERTIFICATION.

Employee \_\_\_\_\_ Total Deductions \_\_\_\_\_

Instructor \_\_\_\_\_ Final Score \_\_\_\_\_

Date \_\_\_\_\_