

# PHYSICAL ACTIVITY DETERMINATION FORM

CLASSIFICATION Heavy Equipment Mechanic ANALYSIS COMPLETED Dec. 16, 2014  
 WORKING TITLE Heavy Equipment Mechanic

DEPARTMENT Public Works

Kind of Work: Journeyman mechanic work involving a variety of makes and models of trucks and heavy road maintenance equipment.

Hours Worked: Normal schedule is 8 hours per day. A shift includes two 15-minute breaks and one 30-minute meal break.

Work Environment:

Lighting: Overhead ceiling lights. Trouble lights are available to light specific areas.

Flooring: In the shop, floors are concrete. On service calls flooring can be pavement, snow, mud, grass, dirt, etc.

Temperature: Varies depending on outside temperature for service calls. Shop can be hot in the summer (fan may be available).

Noise Level: Shop can be very noisy due to engines running, tools operating, pounding, etc.

Ventilation: Shop may have more fumes and exhaust during the cold weather when shop doors are closed.

Environment; Works outdoors and indoors independently and with others with frequent interruptions and deadlines requiring concentration, critical decision making skills, detailed work, multitasking and organizational skills; infrequent people/public contact.

NOTE: At times, use of awkward body mechanics, including for a sustained period of time, based on limited space available and repair work that needs to be completed.

Physical Activities:

	1-5%	6-33%	34-66%	67-100%
	Rare	Occasional	Frequent	Constant
<b>Lift - While Stationary</b>				
Up to 30 lbs				X
Up to 40 lbs			X	
Up to 70 lbs		X		
<b>Carry - While Moving</b>				
Up to 30 lbs				X
Up to 40 lbs			X	
Up to 70 lbs		X		
<b>Push/Pull</b>				
Up to 25 lbs				X
Up to 40 lbs			X	
Up to 55 lbs		X		
Over 160 lbs	X			
<b>Grip Strength</b>				
Up to 30 lbs.				X
Up to 40 lbs			X	
Up to 185 lbs		X		
Up to 200 lbs (both hands)	X			
Balance				X

	1-5%	6-33%	34-66%	67-100%
	Rare	Occasional	Frequent	Constant
Bend & Reach			X	
Climb Ladders/Stairs		X		
Crawl		X		
Squat			X	
Hand/Finger Coordination				X
Kneel		X		
Reaching Forward				X
Reaching Overhead		X		
Sit (with positional changes)		X		
Stand				X
Walk				X
Smell		X		
Vision (near, far, field of vision & color)				X
Hearing (close and distant)				X
Driving		X		

Illustrative Examples of Work: (\*) indicates tasks which have been designated as essential job functions.

- \*1. Diagnoses defects of automobiles, pickups, and heavy trucks and specialized heavy maintenance equipment.
- \*2. Repairs or overhauls brake systems, electrical systems, transmissions, differentials and front and rear axles.
- \*3. Repairs and maintains many types of backhoes, loaders, tractors, trucks, road graders and other related equipment.
- \*4. Inspects, adjusts and replaces as necessary components and related parts.
- \*5. Times camshaft and ignitions.
- \*6. Removes and installs engines, transmissions, differentials, clutches, and other components as required.
- \*7. Makes emergency and field repairs as required.
- \*8. Does acetylene and arc welding.
- \*9. Demonstrates punctual and reliable attendance in accordance with designated work schedule.
- \*10. Performs all assigned tasks according to established safety rules, regulations and practices, and promptly reports work related injuries, unsafe conditions and near miss incidents to immediate supervisor.
11. Performs related duties as assigned.

Equipment/Clothing Used:

- |  |                           |
|--|---------------------------|
| 1. Steel toed boots                              | 22. Measurement tools     |
| 2. Eye protection                                | 23. Time machine          |
| 3. Ear plugs or other hearing protection devices | 24. Wheel balancer        |
| 4. Hard hats are used when out of shop           | 25. Drills                |
| 5. Coveralls                                     | 26. Hand tools            |
| 6. Welding helmets                               | 27. Power tools           |
| 7. Welding clothing                              | 28. Steps/ladders/stools  |
| 8. Single axle trucks                            | 29. Ceiling mounted hoist |
| 9. Tandem trucks                                 | 30. Portable hoist        |
| 10. Graders                                      | 31. Dollies, carts        |
| 11. Loaders                                      | 32. Air impact wrench     |
| 12. Wheel tractors                               | 33. Jacks                 |
| 13. Crawler tractors                             | 34. Forklift              |
| 14. Rollers                                      | 35. Respirators           |
| 15. Tractor trailer                              |                           |
| 16. Screener/stacker                             |                           |
| 17. Press  |                           |
| 18. Grinders                                     |                           |
| 19. Torch  |                           |
| 20. Arc welders                                  |                           |
| 21. Diagnostic equipment                         |                           |