

## NO RTEC JOB SPECIFIC SKILLS COMPETENCY

### HEAVY EQUIPMENT OPERATOR (OPERATING ENGINEER)

#### DOT CODE: 859.683-010 SVP 6

*Job Description:* Operates several types of power construction equipment to excavate, move, and grade earth, erect structural and reinforcing steel, and pour concrete or other hard surface paving materials; Physical demands - medium lifting, carrying, and moving (up to 50 lbs).

#### CORE SKILL COMPETENCIES/INDICATORS:

1. Can demonstrate ability to identify and operate several types of power construction equipment, such as compressors, pumps, hoists, derricks, cranes, bulldozers, power shovels, tractors, scrapers, loaders, trenching machines, or motor graders, following proper operating procedures. (R, IN, S, T)
2. Can demonstrate ability to connect and disconnect any necessary attachments (shovels, buckets, wrecking balls) to equipment. (R, S, T)
3. Can demonstrate proper techniques used to adjust handwheels, depress pedals, operate switches, or turn dials to drive machines and control attachments, such as blades, buckets, scrapers. (R, S, T)
4. Can demonstrate ability to excavate, move and grade earth to specifications. (R, IN, S, T)
5. Can demonstrate ability to move materials, machinery, or other heavy objects using mechanical or hydraulic booms, and tower and cable equipment. (R, S, T)
6. Can demonstrate ability to operate equipment to erect structural and reinforcing steel, and pour concrete or other hard surface paving materials. (R, S, T)
7. Can demonstrate proper techniques used to turn valves to control air and water out-put of compressors and pumps. (R, S, T)
8. Can demonstrate proper techniques used to manually load and unload equipment. (R, S, T)
9. Can demonstrate ability to inspect, maintain, and make routine repairs/adjustments to equipment. (R, IN, S, T)
10. Can demonstrate understanding of basic surveying concepts as they apply to industrial, road and construction work. (R, IN, S, T)
11. Can demonstrate understanding of industry terminology. (IN, S)
12. Can demonstrate ability to identify and use appropriate safety rules for working in extreme weather conditions and variations in terrain. (R, IN, S, T)
13. Can demonstrate understanding of OSHA regulations. (IN, S)
14. Can demonstrate ability to read basic road plans and blueprints as it pertains to the project. (IN, S)
15. Can demonstrate ability to identify and use basic mechanical hand tools. (R, T)
16. Can demonstrate ability to operate equipment according to work orders, signals, and oral instruction. (R, IN, I, S, T)
17. Can demonstrate ability to prepare daily reports on job assignments, and/or keep records on materials moved, and any maintenance/repairs completed on equipment. (R, IN)
18. Can demonstrate the ability to work under stress when confronted with emergencies; critical, unusual, or dangerous situations; or in which working speed and sustained attention are important aspects of job. (R, IN, I, S, T).