

## NO RTEC JOB-SPECIFIC SKILLS COMPETENCY

### SMALL-ENGINE MECHANIC

DOT: 625.281-034 SVP 6

**Job Description:** Maintain and repair electrical, carburetor, and mechanical parts of small engines. *Physical Demands* - Active w/medium lifting, carrying, or moving (up to 50 lbs); *General Educational Demands* - R3 M3 L3- ; *Aptitudes* - Average General Learning Ability, Verbal, Spatial, Form Perception, Finger Dexterity, - Above Average Manual Dexterity.

#### CORE SKILL COMPETENCIES/INDICATORS:

1. Can demonstrate knowledge of the fundamentals of small 2- and 4-cycle engines on outdoor power equipment such as lawnmowers, chain saws, garden tractors and similar machines. (R, S, T)
2. Can demonstrate understanding of the basic principles of electronics to recognize electronic malfunctions. (R, S, T)
3. Can demonstrate familiarity with industry-specific tools and equipment, including basic hand tools, precision equipment, and special testing equipment. (R, S, T)
4. Can demonstrate familiarity with trouble shooting procedures, and can quickly and accurately diagnose the cause of small engine breakdowns. (R, S, T)
5. Can demonstrate proper techniques used to disassemble and reassemble engines and other components. (R, S, T)
6. Can demonstrate proper techniques used to repairs or replace worn or defective parts, such as sparkplugs, ignition points, valves, rings, bearings and carburetors, etc. (R, S, T)
7. Can demonstrate proper techniques used to adjust, clean, and lubricate carburetors and other small engine parts. (R, S, T)
8. Can demonstrate proper techniques used to adjust and repair clutches, power train linkages and other moving parts. (R, S, T)
9. Can demonstrate ability to troubleshoot and repair hydraulic systems on outdoor power equipment. (R, S, T)
10. Can demonstrate proper techniques used to replace engine and/or short blocks on outdoor power equipment. (R, S, T)
11. Can demonstrate proper procedure used to test performance of repaired engines, and can make adjustments as necessary. (R, IN, S, T)
12. Can demonstrate ability to read and interpret equipment manufacturers' service manuals. (R, IN, S, T)
13. Can demonstrate ability to accurately record repairs made, time spent, and parts used. (R, IN, S)
14. Can demonstrate ability to appropriately write up repair costs estimates for customers, prepare bills, and collect payments. (R, IN, S, T)
15. Can demonstrate an working knowledge of occupational safety standards and procedures. (IN, S)
16. Can demonstrate ability to effectively and appropriately communicate with co-workers, supervisors, and customers. (I)
17. Can demonstrate the ability to perform a variety of duties, changing from one task to another of a different nature without loss of efficiency or composure. (R, I, S)