

## NO RTEC JOB SPECIFIC SKILLS COMPETENCY

### DATA COMMUNICATIONS TECHNICIAN (Communications Equipment Mechanic)

DOT: 823.261-030 SVP 7

**Job Description:** Install and repair data communication lines and equipment for computer systems. *Physical Demands* - Mildly Active w/medium lifting, carrying, or moving (up to 50 lbs); *General Educational Development* - R4 M3 L4; *Aptitudes* - Above Average General Learning Ability and Motor Coordination - Average Verbal, Numerical, Spatial, Form Perception, Clerical Perception, Finger Dexterity and Manual Dexterity.

### CORE SKILL COMPETENCIES/ INDICATORS:

1. Can demonstrate a basic understanding of microcomputer hardware systems, and their operation. (S)
2. Can demonstrate basic knowledge of electronics and circuit theory. (S)
3. Can demonstrate ability to perform general mathematical operations quickly and accurately. (IN, S)
4. Can demonstrate ability to work with precision as regards the attainment of set limits, tolerances, or standards. (R, IN, S, T)
5. Can demonstrate ability to read and interpret blueprints, schematic diagrams, sketches, and work orders. (IN, S)
6. Can demonstrate ability to read and interpret technical manuals and/or manufacturers' specifications. (IN, S)
7. Can demonstrate ability to read a rule and measure to 1/16" or 1 mm. (IN, S)
8. Can demonstrate familiarity with hand tools such as needle-nose pliers, soldering irons, and wire strippers, and their use. (T)
9. Can demonstrate proper technique used to splice wires. (T)
10. Can demonstrate proper techniques used to move, change, install or remove data communications equipment such as modems, cables and wires. (T, IN)
11. Can demonstrate proper techniques used to connect microcomputers or terminal to data communication lines. (T, IN)
12. Can demonstrate proper techniques used to disassemble equipment, inspect, and test wiring to locate and repair problems. (T, IN)
13. Can demonstrate ability to modify equipment in accordance with user requests. (T, IN, I)
14. Can use equipment such as voltmeter and data scope to test communication lines to ensure specifications are met. (T, IN)
15. Can demonstrate proper techniques used to check electronic equipment for loose connections, defective components and faulty circuits. (T, IN)
16. Can demonstrate knowledge of, and ability to run, diagnostic programs. (S, T, IN)
17. Can demonstrate proper procedure for entering commands into a computer to test equipment. (IN, T)
18. Can demonstrate ability to verify specified data transmission by correctly reading messages on computer screen. (IN)
19. Can determine when it is appropriate to refer computer hardware system problems to service personnel for correction. (R, IN, S)
20. Can plan layout and installation of data communications equipment. (R, T, I, IN)
21. Can demonstrate use of data communications equipment. (T, I, IN)
22. Can demonstrate ability to keep complete maintenance and repair records. (R, IN)
23. Can demonstrate ability to inventory and order parts and supplies. (R, N)

24. **Can demonstrate ability to provide technical assistance to customers. (I)**
25. **Can demonstrate ability to serve customers and maintain courteous relationships with customers in person and by telephone. (I)**
26. **Can demonstrate ability to work under stress to meet schedule deadlines. (R, I)**