

## NO RTEC JOB SPECIFIC SKILLS COMPETENCY

### GLASS TUBE BENDER

DOT: 772.381-010 / O\*NET-SOC: 51-9195.04 SVP 8

**Job Description:** Heats and bends glass tube to form scroll of electric neon signs according to pattern. *Physical Demands-* Mildly active w/light lifting, carrying or moving (up to 20 lbs). *General Education Development* - R4, M3, L3; *Aptitude-* Above average Spatial, Form Perception, Motor Coordination, Finger Dexterity, Manual Dexterity; Average General Learning Ability, Verbal Aptitude.

#### CORE SKILL COMPETENCIES/INDICATORS:

1. Can demonstrate proper technique used to tack asbestos or non-asbestos pattern materials onto workbench. (R, S, T)
2. Can demonstrate proper technique used to cut lengths of tubing required to form letters, using file. (R,S,T)
3. Can demonstrate ability to hold tube over gas burner at point to be bent, rotating tube to heat it uniformly. (R, IN, S, T)
4. Can demonstrate proper technique used to place rubber hose over end of tubing. (R, S, T)
5. Can demonstrate proper technique used to blow into hose to prevent glass from collapsing and bend tube by hand. (R, S, T)
6. Can demonstrate ability to superimpose bent tubing on asbestos, or non-asbestos pattern material to ensure accuracy. (R, S, T)
7. Can demonstrate ability to place electrode in each end of tube and heat with gas burner to fuse in place. (R, S, T)
8. Can demonstrate ability to paint or tape portions of tubing to separate letters. (R, S, T)
9. Can demonstrate ability to repair broken scroll by replacing with new sections of tubing. (R, S, T)
10. Can demonstrate proper technique used to charge tubing with neon or argon gas. (R, S, T)
11. Can demonstrate ability to trace designers diagram to a neon pattern material. (R, IN, S, T)
12. Can demonstrate proper techniques used in glass preparation and cleaning. (R, S, T)
13. Can demonstrate ability to appropriately utilize industry-specific tools and equipment, such as manifold, bombardier, and fires. (R, S, T)
14. Can demonstrate ability to set-up, operate, inspect, maintain, and make routine repairs/adjustments to manifold, bombardier, and fires. (R, IN, S, T)
15. Can demonstrate appropriate procedure for moving material/items from receiving or production to storage or other designated areas by hand and/or handtruck. (S, T)
16. Can demonstrate ability to accurately maintain inventory records. (S, IN)
17. Can demonstrate working knowledge of industry-specific health and safety standards and procedures. (R, IN, S, T)
18. Can demonstrate understanding of how a neon shop is assembled. (R, IN, S, T)
19. Can demonstrate understanding of how a product is sold and market pricing. (R, I, IN, S, T)
20. Can demonstrate ability to work under stress to meet schedule deadlines. (R, I)
21. Can demonstrate ability to clean and maintain work area in an orderly fashion. (R, T)