

NO RTEC JOB SPECIFIC SKILLS COMPETENCY

INJECTION-MOLDING-MACHINE OPERATOR

DOT: 556.382-014 / O*NET-SOC: 51-4072.01 SVP 5

Job Description: Sets up and operates injection-molding machines to cast thermoplastic materials to specific shape. Physical Demands-Mildly active with light lifting, carrying or moving (up to 20 lbs); General Educational Development- R-3 M2 L2; Aptitudes- Above average Spatial, Form Perception, and Manual Dexterity - Average General Learning Ability, Verbal, Numerical, Motor Coordination and Finger Dexterity.

CORE SKILL COMPETENCIES/INDICATORS:

1. Can demonstrate a thorough knowledge of injection-molding machinery and of the company-specific products being manufactured. (R, IN, S, T)
2. Can demonstrate a good working knowledge of the properties of plastics. (IN, S)
3. Can demonstrate familiarity with plastic and molding procedures, including cooling and heating requirements and effect of changes on the molded part. (R, S, T)
4. Can demonstrate ability to read and interpret blueprints and work order specifications. (R, IN, S)
5. Can demonstrate ability to appropriately install dies onto machine, according to work order specifications, using clamps, bolts, and handtools. (R, S, T)
6. Can demonstrate ability to set machine controls to regulate molding temperature, volume of plastic, molding pressure and time, according to knowledge of plastics and molding procedures. (R, S, T)
7. Can demonstrate proper procedure used to activate machine to close dies and inject plastic into dies to cast part. (R, S, T)
8. Can demonstrate ability to read specifications to determine set-up and prescribed temperature and time settings to mold or cast plastic materials. (R, IN, S)
9. Can demonstrate proper procedure used to load machine hopper with premixed plastic powders or pellets. (R, S, T)
10. Can demonstrate ability to observe and adjust machine set-up and operations to eliminate production of defective parts and products. (R, IN, S, T)
11. Can demonstrate proper procedure used to mix thermoplastic materials and coloring pigments in mixing machine, according to formula. (R, IN, S, T)
12. Can demonstrate ability to inspect and evaluate the quality of products to ensure conformance to specifications. (R, IN, S, T)
13. Can demonstrate proper procedure used to remove finished product from dies. (R, S, T)
14. Can demonstrate proper procedure used to trim excess material from part. (R, S, T)
15. Can demonstrate proper procedure used to grind scrap plastic into powder for reuse. (R, S, T)
16. Can demonstrate ability to repair and maintain machines and auxiliary equipment, using hand tools and power tools. (R, S, T)
17. Can demonstrate ability to understand and maintain all shop safety procedures and requirements. (IN, S)
18. Can demonstrate ability to maintain shop in neat, clean order. (R, S)