

SOUTH SEATTLE COMMUNITY COLLEGE

Industrial Manufacturing Basics

Certificate Outcomes

1. Describe the difference between making and manufacturing
2. Demonstrate shop safety techniques and use of PPE in a shop setting
3. Identify various types of materials equipment commonly used in manufacturing
4. Identify and learn proper use of various types of tools and equipment commonly used in manufacturing
5. Learn proper storage of tools and equipment
6. Follow job plans and drawings to manufacture and complete classroom projects
7. Identify the production practice of Lean manufacturing and its impact in the workplace
8. Collaborate in teams to effectively produce a standardized product
9. Demonstrate all aspects of the basic process of manufacturing including production, inspection, and finishing
10. Demonstrate knowledge of the basic principles of physics as they apply to everyday life
11. Demonstrate knowledge of the physical laws as applied to manufacturing
12. Describe how electricity works
13. Demonstrate proficiency in basic wiring
14. Understand and use of test meters

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PROGRAM OUTCOMES

- Describe and utilize manufacturing techniques, tools and safety practices. (SLO 1, 2, 3, 4, 5, 7)
- Apply the concepts of diversified manufacturing, CPR, First AID and Electronics to promote quality and safe production and designs. (SLO 1,2,3,4,7)
- Employ the appropriate actions regarding workplace culture, safety and industry standards; (SLO 3, 6)
- Evaluate one's own capabilities and limitations, identify individual needs of continued growth is able to seek consultation from superiors. (SLO 3, 6)
- Communicate effectively and appropriately in the workplace. (SLO 1, 3, 4, 6)
- Practice within the standards established by the profession, and identify the parameters of accountability. (SLO 2, 4, 5, 6, 7)