



Western Technical College

10420225 Machining Professional Portfolio (CBE)

Course Outcome Summary

Course Information

Description	Requires the learner to apply technical skills as well as work productively, communicate effectively, and demonstrate ethics in a professional work environment.
Career Cluster	Manufacturing
Instructional Level	One-Year Technical Diploma
Total Credits	1
Total Hours	36

Textbooks

No textbook required.

Learner Supplies

Safety glasses with side eye protection that meet Z87 OSHA guidelines. **Vendor:** Campus Shop. Required.

Proper footwear - \$35.00-75.00. **Vendor:** To be discussed in class. Required.

Scientific calculator (recommend T1-36x Solar). **Vendor:** Campus Shop. Required.

Three-ring binder. **Vendor:** Campus Shop. Required.

Clipboard. **Vendor:** Campus Shop. Required.

Pens/Pencils/Black Sharpie Marker. **Vendor:** Campus Shop. Required.

Minimum 4GB USB Flash Drive. **Vendor:** Campus Shop. Required.

Success Abilities

1. Cultivate Passion: Enhance Personal Connections
2. Cultivate Passion: Increase Self-Awareness
3. Live Responsibly: Foster Accountability
4. Refine Professionalism: Practice Effective Communication

Program Outcomes

1. Apply precision measuring methods to part inspection.
2. Perform basic machine tool equipment set-up and operation.
3. Perform programming, set-up and operation of CNC Machine Tools.

Course Competencies

1. Work productively in a professional workplace environment.

Assessment Strategies

- 1.1. Demonstration

Criteria

You will know you are successful when

- 1.1. you mimic the professional workplace by attending lab regularly during self-scheduled times.
- 1.2. you display initiative to complete final projects.
- 1.3. you produce final work products to within specified tolerances following industry standards.

Learning Objectives

- 1.a. Produce work with a level of accuracy acceptable to industry specifications.
- 1.b. Demonstrate ability to perform assigned tasks within industry's specified time limit.
- 1.c. Display positive interpersonal skills within the work environment.
- 1.d. Demonstrate an understanding of job procedures, responsibilities, and scope of duties related to the career.

2. Demonstrate effective workplace behaviors.

Assessment Strategies

- 2.1. Demonstration

Criteria

You will know you are successful when

- 2.1. you interact professionally with peers and instructors.
- 2.2. you demonstrate ability to work with diverse population.
- 2.3. you accept constructive feedback.
- 2.4. you troubleshoot potential problems.
- 2.5. you apply technology skills.

Learning Objectives

- 2.a. Develop team work skills.
- 2.b. Use problem solving skills.
- 2.c. Respect diversity within an organization.
- 2.d. Interact effectively with peers/coworkers/instructors.
- 2.e. Accept criticism and constructive feedback.

3. Communicate as a professional.

Assessment Strategies

- 3.1. Presentation
- 3.2. Written Product

Criteria

You will know you are successful when

- 3.1. you upload a resume to an online job site.
- 3.2. you present capstone project to advisory board or potential employer.
- 3.3. you apply conventions of English in written and oral communications.
- 3.4. you apply appropriate social skills.

Learning Objectives

- 3.a. Develop an online profile (i.e.Indeed).
- 3.b. Practice interviewing skills.
- 3.c. Follow oral and written instructions.
- 3.d. Ask questions to clarify.