

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Safety and Cutting Processes

Course Abbreviation and Number: WLD 1200

Credit Hours: 3

Course Type: Lecture/Lab

Course Description: This course introduces oxy-fuel and plasma-arc cutting systems. Topics include an intensive introduction to welding safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thicknesses as well as have an appropriate understanding of welding safety.

No requisites.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. List the important safety measures for the equipment used during this course.
2. List specific machines as well as the type of cutting operations each machine is best suited for.
3. Perform acceptable cutting operations using Oxy-Fuel and Plasma cutting systems.
4. Perform a basic measuring check on a production part.

Topics Covered:

- Safety in welding
 - Burns
 - Face, eye, and ear protection
 - Ventilation
 - MSDS
 - Clothing specifications
 - Cylinders
 - Fire protections
 - Equipment maintenance
 - Electrical safety
- Cutting processes
 - Material handling
 - Iron Worker
 - Shear
 - Oxy fuel
 - Plasma
 - Semi-automatic Oxy fuel
 - Carbon arc gouging
 - Haas CNC introduction
 - Manual mills & lathes

Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
- [Accessibility Services](#)
Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
- [Get Help: JCC & Community Resources](#)
- [Emergency Closing Procedures](#)
- Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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- Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.

Effective Date: Fall 2021