

# Intro to Welding & Safety

TEWT - 1100 101

## Course Description

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Students are provided with a general introduction to the art, science, & technology of welding. General industrial and safety practices are taught. Students will learn important job seeking skills and practices to obtain equitable employment. Basic computer skills will be taught so students will be able to navigate online learning opportunities.

Semesters Taught: All

## Engagement Plan

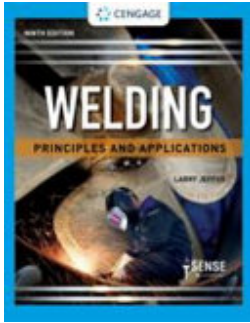
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Example language:

- I will respond to email within 2 school days. I will offer feedback on major assignments within 2 school days. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

## Required Text or Materials

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**Title:** Welding Principles and Applications

**ISBN:** ISBN: 9780357377659

**Authors:** Authors: Larry Jeffus

**Publisher:** Publisher: Cengage Learning

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**Edition:** 9

**OID:** [For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.](#)

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## Brief Description of Assignments/Exams

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At the completion of this course, students shall have demonstrated to the instructor job entry level competencies, including:

Outcome 1 - Describe career path possibilities in the welding industry.

- Identify careers associated with welding
- Explain the job outlook of the profession

Outcome 2 - Describe common types of welding processes and tools.

- Define basic welding process term
- Identify shielded metal arc welding
- Identify oxyacetylene welding
- Identify gas metal arc welding
- Identify flux cored arc welding
- Identify gas tungsten arc welding
- Identify submerged arc welding
- Describe various types of welding tools

### Outcome 3 - Explain welding lab policies and safe industrial practices

- Explain general industrial welding safety.
- Describe protective clothing for welding
- Explain how to use eye safety personal protective equipment (PPE), and how to prevent and respond to eye injuries
- Explain how to prevent and respond to physical injuries using ergonomic safety procedures and PPE
- Explain how to use hearing safety personal protective equipment (PPE), and how to prevent and respond to hearing injuries
- Explain lab policies

### Outcome 4 - Select the correct classification of extinguisher for a given fire emergency.

- Identify different classifications of fire extinguishers
- Describe how to correctly operate various fire extinguishers

### Outcome 5 - Job Seeking Skills

- Identify pertinent information for an impressive resume'
- Write an up-to-date personal resume'
- Identify positive interview traits
- Identify employment soft skills desired by employers
- Create an E-Portfolio which includes reflective growth within the program.

### Outcome 6 - Basic Computer Concepts

- Perform basic computer operations and functions

- Navigate through various computer systems that will be utilized throughout the welding program.

#### REQUIRED ASSESSMENTS:

- Pass a Welding Safety Exam with 100% accuracy
- Objectives must be passed at an 80% in order to demonstrate competency mastery

### Assignment Schedule

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Due Date	Assignment Name	Assignment Type	Points
	<a href="#">Equipment Setup Knowledge Check</a>	Quiz	25
	<a href="#">Equipment Setup Module Quiz</a>	Quiz	40
	<a href="#">Equipment Setup Quiz</a>	Quiz	18
	<a href="#">Essential Variables Check Your Knowledge</a>	Quiz	33
	<a href="#">Eye Safety Self-Check</a>	Quiz	6
	<a href="#">Module 1 Check Your Knowledge</a>	Quiz	2
	<a href="#">Module 2 Quiz</a>	Quiz	26
	<a href="#">Module 2: Welding Process Self-Check</a>	Quiz	2
	<a href="#">Module 3: General Safety Self-Check</a>	Quiz	8

Due Date	Assignment Name	Assignment Type	Points
	<a href="#">Module 4: PPE and Tools Self Check</a>	Quiz	9
	<a href="#">Module 6: Hearing Safety Self-Check</a>	Quiz	4
	<a href="#">Module 7: Ergonomics Self-Check</a>	Quiz	4
	<a href="#">Module 8 Quiz on Safety</a>	Quiz	23
	<a href="#">Module 8: Fire Safety Self-Check</a>	Quiz	10
	<a href="#">Module 9: Welding Safety Exam</a>	Quiz	5
	<a href="#">Roll Call Attendance</a>	Assignment	100
	<a href="#">Shop and Process Safety Check Your Knowledge</a>	Quiz	30
	<a href="#">Shop and Process Safety Practice Practices Quiz</a>	Quiz	0
	<a href="#">Welding Definition Vocabulary Practice Quiz</a>	Quiz	0
	<a href="#">Welding Vocabulary and Career Paths Check Your Knowledge</a>	Quiz	2

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Grading Scale

A (92-100%)

A- (89-91%)

B+ (86-88%)

B (83-85%)

B- (80-82%)

C+ (77-79%)

C (74-76%)

C- (71-73%)

D+ (67-69%)

D (64-66%)

E (Below 64%)

I (Incomplete)

UW (Unofficial Withdrawal)

## [How to Navigate to Canvas](#)

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## [Institutional Policies](#)

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As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

## [Learning Support and Tutoring Services](#)

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We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## [Advising and Counseling Support Services](#)

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At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## [Student Academic Calendar](#)

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As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)