

# DEGREES & CERTIFICATES

## WELDING TECHNOLOGY CERTIFICATE OF ACHIEVEMENT (CA)

### About the Program

The Certificate of Achievement in Welding Technology is designed to prepare students for entry level employment in a manufacturing environment. Key outcomes of the certificate include operating safely while performing the welding skills necessary to pass standard industry tests. Students will also learn to use auxiliary equipment, processes and materials. Completion of the certificate will provide the student a strong knowledge foundation to utilize and apply common welding processes.

### Program Goals and Objectives

The Certificate of Achievement in Welding Technology is designed to prepare students for entry level employment in a manufacturing environment. Completion of the certificate will provide the student a strong knowledge foundation to utilize and apply common welding processes.

### Career Opportunities

The welding industry offers a wide variety of dynamic and challenging careers. Underwater welders are needed on offshore oil rigs. Welder-operators use automated welding systems to manufacture cars. Structural welders help to construct skyscrapers and bridges. In addition to welders, other professionals such as certified inspectors and engineers rely on welding to do their jobs. Without these professionals, our country would fall apart. The demand for skilled welding professionals is constantly growing. By 2025, our nation's workforce will need over 400,000 welders to satisfy the demands of several industries.

### Program Outcomes

- Upon completion of the Certificate of Achievement in Welding Technology, students are able to operate safely in a welding workplace environment.
- Upon completion of the Certificate of Achievement in Welding Technology, students have the skills necessary to pass an American Welding Society standard welding certification test.

#### Required Core: (7 units)

WLDT 55 Print Reading for Industry.....	2
WLDT 63 Welding Layout and Fitting.....	2
WLDT 66 Welding Inspection and Testing.....	2
WLDT 73 Welding Workplace Safety.....	1

#### LIST A: Select from Below (15 units)

WLDT 1 Welding Camp.....	1
WLDT 61A Beginning SMAW and FCAW Theory.....	1
WLDT 61AL Beginning SMAW and FCAW Skills Lab.....	2
WLDT 61B Advanced SMAW and FCAW Theory.....	1
WLDT 61BL Advanced SMAW and FCAW Skills Lab.....	2
WLDT 62A Beginning GTAW and GMAW Theory.....	1
WLDT 62AL Beginning GTAW and GMAW Skills Lab.....	2
WLDT 62B Advanced GTAW and GMAW Theory.....	1
WLDT 62BL Advanced GTAW and GMAW Skills Lab.....	2
WLDT 67A Welding Skills Lab.....	2
WLDT 67B Advanced Welding Skills Lab.....	2
WLDT 68 Certification Preparation.....	2
WLDT 70 Introduction to Welding.....	2
WLDT 72A Beginning Laser Welding.....	2
WLDT 72B Intermediate Laser Welding.....	.....
WLDT 72C Advanced Laser Welding.....	.....
WLDT 80 The Welding Business.....	.....

#### LIST B: Select One Area (4 units)

MATH 72A Technical Elementary Algebra A.....	.....
MATH 72C Technical Elementary Algebra C.....	.....
MATH 53A Technical Intermediate Algebra for Welding A.....	.....
MATH 39 Trigonometry.....	4