WELDING CERTIFICATE

Welding processes are widely used in construction projects and in manufacturing facilities all over the world. These processes require precision, dexterity, and an understanding of metals. The program focuses on the major welding and cutting processes which includes Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Flux Cored Arc Welding (FCAW). The program also addresses safety, print reading, and mathematics. The welding coursework helps in the development of quality welds in all positions on plate and pipe. Successful completion of the course gives the student the technical information required for entry level employment.

(Enrollment into this program is limited and based on the date of application.)

All coursework in the Welding Certificate program will apply as full credit towards the Welding Diploma, the Associate of Arts Degree, or the Associate of Science Degree.

Required Program of Study for Certificate (16 weeks)

FALL SEMESTER

Course	Credits
WELD 1030 SMAW Basic Theory	1.5
WELD 1035 SMAW Basic Lab	3
WELD 1040 GMAW/FCAW Theory	1.5
WELD 1045 GMAW/FCAW Lab	3
WELD 1110 Introduction to Metals & Inspection	2
WELD 1140 Print Reading & Symbols	2
WELD 1155 Fabrication Equipment & Operation Lab	2
MATH 1020 Technical Mathematics I	3
Total Credit Hours	18

WELDING DIPLOMA

Welding processes are widely used in construction projects and in manufacturing facilities all over the world. These processes require precision, dexterity, and an understanding of metals. The program focuses on the major welding and cutting processes which includes Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Flux Cored Arc Welding (FCAW). The program also addresses safety, print reading, and math. The welding coursework helps in the development of quality welds in all positions on plate and pipe. Successful completion of the course gives the student the technical information required for entry level employment.

(Enrollment into this program is limited and based on the date of application.)

All coursework in the Welding Diploma program will apply as full credit towards the Associate of Arts Degree or the Associate of Science Degree.

Required Program of Study for Diploma (32 weeks)

FALL SEMESTER

Course	Credits
WELD 1030 SMAW Basic Theory	1.5
WELD 1035 SMAW Basic Lab	3
WELD 1040 GMAW/FCAW Theory	1.5
WELD 1045 GMAW/FCAW Lab	3
WELD 1110 Introduction to Metals & Inspection	2
WELD 1140 Print Reading & Symbols	2
WELD 1155 Fabrication Equipment and Operation Lab	2
MATH 1020 Technical Mathematics I	3
	18

SPRING SEMESTER

Course	Credits
WELD 1050 GTAW Theory	1.5
WELD 1055 GTAW Lab	3
WELD 1060 Pipe Applications Theory	1.5
WELD 1065 Pipe Applications Lab	3
WELD 1170 Print Reading and Fabrication Lab	2
ENGL 1050 Workplace Communication **OR** BSAD 2050 Business Communications	3
	14
Total Credit Hours	32