Plan Code: 3988

This program is designed to prepare students for a variety of entry-level positions in today's construction and fabrication industries. Upon completion students will have a thorough knowledge of welding safety, theory and procedures, in accordance with the American Welding Society SENSE (Schools Excelling through National Skills Education) Entry Welder program, as well as the skill to perform a variety of welding processes. Successful completion of this degree will prepare students for the following career opportunities: welder, welding inspector, welding technician/fitter, pipe fitter/welder, and metal fabricator.

- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using the SMAW (Shielded Metal Arc Welding) process.
- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

| Code Number | Course Title | Units |
|------------------|--|-------|
| REQUIRED COURSES | | |
| MTFAB 50 | Introduction to Metalworking | 4 |
| MTFAB 204 | Power Metalworking Machine Operations | 4 |
| MTFAB 260 | Blueprint Reading for Metal Fabrication | 3 |
| MTFAB 270 | Metallurgy | 2.5 |
| WELD 50 | Introduction to Welding | 3.5 |
| WELD 211 | Oxy-fuel Welding and Cutting Technology | 2 |
| WELD 212 | Introduction to Shielded Metal Arc Welding | 3.5 |
| WELD 213 | Introduction to Semi-Automatic Welding | 3.5 |
| WELD 214 | Introduction to Gas Tungsten Arc Welding | 3.5 |
| Total Units | | 29.5 |

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M C LOBIP I T O

Plan Code: 6038

This program is designed for those interested in learning basic Gas Metal Arc Welding and Flux-Core Arc Welding. Course work includes an entry-level study with an emphasis on application of fundamental welding techniques and safe industry practices. This course prepares the student s or the entry-

BASIC ARC WELDING -CERTIFICATE OF COMPLETION

Plan Code: 6039

BASIC OXY-ACETYLENE WELDING - CERTIFICATE OF COMPLETION

This program is designed for those interested in learning basic Oxy-Acetylene Welding. Course work includes an entry level study with an emphasis on application of fundamental welding techniques and safe industry practices. This course prepares the student for an entry level position as a Oxy-Acetylene Welder. The student be required to provide all PPE safety gear (personal protective gear) required to safely perform Oxy-Acetylene welds in the lab.

Program Student Learning Outcomes

• Demonstrate entry level skills to produce quality welds in the flat and horizontal positions using the Oxy-Acetylene process.

Program Requirements

| WELD 600 | Welding (General) | 72 |
|----------|--------------------------|----|
| WELD 661 | Oxygen Acetylene Welding | 54 |



Plan Code: 6035

This program is designed for those interested in exploring the welding and metal fabrication fields. Course work includes an entry-level study with an emphasis on the safe application of fundamental metal fabrication and welding techniques and practices. This program prepares the student for an entry-level position in the metal fabrication and/or welding industry.

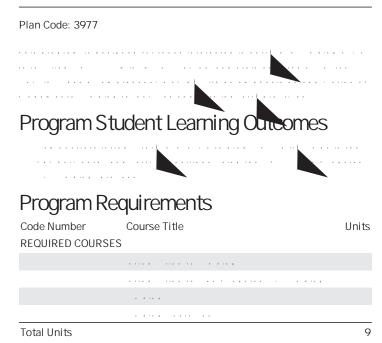
 Demonstrate the basic skills to safely model, fabricate and weld a metal part.

| Code Number | Course Title | Hours |
|-------------|-----------------------------|-------|
| REDOORSES | | |
| WELD 601 | Exploring Welding | 18 |
| MTFAB 601 | Exploring Metal Fabrication | 18 |
| Total Hours | | 36 |

GAS TUNGSTEN ARC WELDING (GTAW) - CERTIFICATE OF ACHIEVENENT

Plan Code: 3989

INTRODUCTION TO GAS TUNGSTEN ARC WELDING (GTAW) - CERTIFICATE OF ACHIEVEMENT



BASIC GAS TUNGSTEN ARC WELDING - CERTIFICATE OF COMPLETION

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This program is designed for those interested in learning basic GTAW Welding. Course work includes an entry level study with an emphasis on application of fundamental welding techniques and safe industry practices. This course prepares the student for an entry level position as a GTAW Welder. The student will be required to provide all PPE safety gear (personal protective gear) required to safely perform GTAW welds in the lab.

Program Student Learning Outcomes

• Demonstrate entry level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

Program Requirements

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| WELD 600 | Welding (General) | 72 |
| WELD 681 | Welding (Inert Gas) | 54 |
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Shielded Metal Arc Welding (S,I

SMAWA SERT FOR ATE OF

Plan Code: 3978

This program is designed for those it sted in welding structural steel. Course work includes a comprehense e study with an emphasis on application of fundamental welding techniques and safe industry practices. Potential careers that the program prepares students for include, but are not limited to, Pipe Fitters and Steamfitters, Sheet Metal Workers, as well as Structural Iron and Steel Workers.

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