

Ag Metal Fabrication Technology (18404) (2022)

Apply safety practices in metal fabrication. AMF 1

1 Demonstrate safe operation and knowledge of metal fabrication tools and equipment. AMF 1.1

2 Demonstrate workplace/worksite safety procedures and protocols. AMF 1.2

Demonstrate the basics of metal fabrication. AMF 2

1 Demonstrate knowledge of metal fabrication techniques and related technologies. AMF 2.1

2 Prepare various metals for welding. AMF 2.2

3 Create plans for a metal project. AMF 2.3

4 Create a metal fabrication project. AMF 2.4

Demonstrate the principles of Shielded Metal Arc Welding (SMAW) and the correct operation of SMAW equipment. AMF 3

1 Perform Shielded Metal Arc Welding (SMAW) techniques. AMF 3.1

Demonstrate the principles of Metal Inert Gas (MIG) welding, also known as Gas Metal Arc Welding (GMAW), and the correct operation of MIG equipment. AMF 4

1 Perform metal inert gas (MIG) welding techniques. AMF 4.1

Understand the correct operation of oxyacetylene equipment. AMF 5

1 Explore oxyacetylene welding, cutting, and brazing. AMF 5.1

Explore advanced welding processes. AMF 6

1 Investigate and explain principles of advanced welding processes (e.g. Tungsten Inert Gas (TIG) welding, plasma cutting (hand or table)) AMF 6.1

Develop employability skills related to the Power, Structural, and Technical Systems Pathway. AMF 7

- 1 Develop soft skills to enhance employability.** AMF 7.1
 - 2 Investigate careers related to metal fabrication.** AMF 7.2
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Implement an individual project for career development through a Supervised Agriculture Experience/Work based Experience. AMF 8

- 1 Develop an individual project plan with goals and timeline.** AMF 8.1
- 2 Explore opportunities within AFNR industries.** AMF 8.2
- 3 Apply concepts of financial management appropriate to agricultural projects and personal finances.** AMF 8.3
- 4 Develop and document knowledge and skills to ensure workplace safety regarding personal health and environmental management.** AMF 8.4
- 5 Research and analyze how public policy, laws, and advocacy impact agricultural systems and agricultural literacy.** AMF 8.5