

# METAL FABRICATION TECHNOLOGY - CERTIFICATE OF ACHIEVEMENT

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Plan Code: 3982

This program prepare students for an entry-level position as a trainee in metal layout, fabrication, welding and installation. It will place added emphasis on Computer Numerical Control (CNC) metal fabrication, design, welding, and advanced manufacturing techniques and help prepare the student for acceptance into apprenticeship in one of the metalworking trades environment.

## Program Student Learning Outcomes

- Perform a common sheet metal layout and fabrication project.
- Perform common metal fabrication using power machinery to produce a fabrication project.
- Design and fabricate an advanced sheet metal project involving two different pieces of CNC fabrication equipment.

## Program Requirements

Code Number	Course Title	Units
<b>REQUIRED COURSES</b>		
MTFAB 50	Introduction to Metalworking	4
MTFAB 55	3D Modeling for Metal Fabrication	2
MTFAB 202	Advanced Metal Layout/Fabrication	4
MTFAB 204	Power Metalworking Machine Operations	4
MTFAB 206	CNC Metal Fabrication Systems	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	2.5
MTFAB 280	Introduction to Robotic Welding	2.5
MTFAB 421	Metal Fabrication and Layout	1
WELD 50	Introduction to Welding	3.5
<b>Total Units</b>		<b>30.5</b>