Western Dakota Technical Institute 800 Mickelson Drive Rapid City, SD 57703-4018

Master Syllabus

Course Number:	IEL 140
Course Name:	Welding & Fabrication for Light Commercial Applications
Credits:	2
Contact Hours:	1 Lecture, 2 Lab

Course Description: This course is designed to teach students skills to cut, fabricate, and weld brackets, hangers for conduits and panels, stands, and hanging platforms for transformers using oxyacetylene cutting and wire feed (GMAC) welding procedures.

Prerequisites: None

Textbooks: None

Materials: Safety glasses

Student Learning Outcomes:

- List safety precautions for arc and gas welding equipment
- Evaluate safety precautions for arc and gas welding equipment
- Analyze types of welds, weld joints, and four welding position prefixes
- Differentiate types of welds, weld joints, and four welding position prefixes
- Perform cutting and welding of metal using the cutting torch, plasma torch, and GMAW

Assessment: Life skills, analytical skills, technology skills, and employability will be assessed throughout this course.

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