Salt Lake Community College

Orientation to Advanced Manufacturing

AMFG 1100 – Summer Semester 2020

Department Name: Division of Workforce Training and Continuing Education

Instructor: TBD

Email: TBD

Class Date: TBD

Class Time: TBD

Class Location: TBD

Office Hours: By appointment

Textbook: None

Course Description

This course will teach students basic safety, blueprint reading, work instructions and tracking, basic math review, and the use of basic measuring and drilling tools.

Course Learning Outcomes
Describe basic workplace safety to include Personal Protective Equipment, electrical safety, and Lockout Tagout programs
Calculate decimals and percentages, unit conversions, basic geometry and ratios and proportions
Interpret technical documents such as blueprints, electrical schematics, and Bills of Materials
Demonstrate how to use basic measuring tools
Demonstrate how to use basic hand tools for drilling various material
Create work instructions based on given technical documentation

COURSE MATERIALS and COMMUNICATIONS: This course will make extensive use of the SLCC Canvas online management system to provide course materials, communicate official

announcements, serve as a repository for course specific information, and channel communications between students and the instructor. Be sure to set your Canvas preferences so that notifications and updates reach you in a timely manner. If you are new to the Canvas system, there are various options available for orientations and training available.

TOPICS COVERED:

Unit #	Topic	Assignment due
1	Shop Safety	none
2	Math Review	none
3	Reading Technical Documents	Work Instructions Project 1 Work Instructions Project 2
4	Zones and Corrosion	
5	Drilling and Rivet Connections	Project 1 Drill and Rivet
6	Screw Connections	Project 2 Lap Joint
7	Threaded Inserts	Project 3 L Channel Lap Joint Project 4 Tool Box

Grading*

A	100 %	to 94.0%
A-	< 94.0 %	to 90.0%
B+	< 90.0 %	to 87.0%
B	< 87.0 %	to 84.0%
B-	< 84.0 %	to 80.0%
C+	< 80.0 %	to 77.0%
C	< 77.0 %	to 74.0%
C-	< 74.0 %	to 70.0%
D+	< 70.0 %	to 67.0%
D	< 67.0 %	to 64.0%
D-	< 64.0 %	to 61.0%
F	< 61.0 %	to 0.0%

Subject to change

Assessment	Description	Percentages
Work Instructions Project 1	Develop work instructions from given documentation	8%
Work Instructions Project 2	Develop work instructions for peer review	8%
Exam 1	Exam 1 covers all lecture material	10%
Project 1 Drill and Rivet	Students will use work documentation and blueprints to layout, drill, and rivet	8%
Project 2 Lap Joint	Students will use blueprints to layout, drill, and rivet a lap joint	8%
Project 3 L Channel Lap Joint	Students will use blueprints to layout, drill, and rivet an L Channel to Project 2 Lap Joint	8%
Project 4 Tool Box	Students will use blueprints to layout, drill, and rivet a tool box	25%
Final Exam	Comprehensive final exam covering all material presented in lecture and lab	25%