

COURSE OUTLINE: MTF133 - MACHINE OPERATIONS

Prepared: Dave Holley

Approved: Martha Irwin, Chair, Community Services and Interdisciplinary Studies

Course Code: Title	MTF133: MACHINE OPERATIONS				
Program Number: Name	4051: METAL FABRICATION 4053: WELDING TECHNIQUES				
Department:	IRONWKR APPR./WELDING RELATED				
Semesters/Terms:	21W				
Course Description:	Use fabrication equipment for forming plate and structural shapes in accordance with government safety regulations, manufacturer recommendations, and approved industry standards.				
Total Credits:	2				
Hours/Week:	2				
Total Hours:	30				
Prerequisites:	There are no pre-requisites for this course.				
Corequisites:	There are no co-requisites for this course.				
Vocational Learning Outcomes (VLO's) addressed in this course:	4051 - METAL FABRICATION VLO 2 Apply knowledge of various welding and metal cutting techniques and theories to produce components and sub-assemblies.				
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 3 Prepare materials by utilizing fabrication machinery and equipment.				
	VLO 6 Develop project plans relating to component and sub-assembly production.				
	VLO 7 Complete all work in compliance with health and safety legislation and prescribed organizational practices and procedures to ensure safety of self and others.				
	VLO 8 Work responsibly and effectively in accordance with government safety regulations, manufacturer's recommendations and approved industry standards.				
	4053 - WELDING TECHNIQUES				
	VLO 1 Perform work responsibly and in compliance with the Occupational Health and Safety Act.				
	VLO 3 Recognize and understand use of welding symbols.				
	VLO 4 Use layout and fabrication processes typical to the industry to determine correct form with accuracy.				
	VLO 5 Select appropriate tools and devices to perform mathematical calculations and technical measurements for successful completion of a project.				
Essential Employability Skills (EES) addressed in	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.				
this course:	EES 10 Manage the use of time and other resources to complete projects.				
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In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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MTF133: MACHINE OPERATIONS Page 1

	EES 11 Take responsibility for ones own actions, decisions, and consequences.					
Course Evaluation:	Passing Grade: 50%, D					
	A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.					
Other Course Evaluation & Assessment Requirements:	1.Late hand in penalties will be -10% per day. 2.If a student misses a test, he/she must have a valid reason (i.e. medical or family emergency documentation shall be required). In addition, the instructor MUST be notified PRIOR to the test sitting. If this procedure is not followed the student will receive a mark of zero on the test with no make-up option. 3.Re-writes are NOT allowed for any written assignment, quiz or test. 4.Course attendance is mandatory. Any student that is not present for the first 3 classes in each course, will be deemed to have not completed the required safety orientation for the course and will not be permitted to continue. One percent (1 %) per hour will be deducted from the final course grade for unexcused* absence. Any unexcused attendance beyond 15% of the total allocated course hours will result in the student receiving a failing grade for the course. Valid reasons would include: Doctors note Family Death or Serious Illness supported by a written note. Unexcused absence* will be determined in a case by case basis by the instructor of each course.					
Course Outcomes and						
Learning Objectives:	Use fabrication eq for forming plate a structural shapes i accordance with government safety regulations, manurecommendations approved industry	uipment ind in / facturer`s and	Upon suddemonstri 1. Descri equipmer - Plate sh - Iron wo	nears rker aws s		
			machiner - Plate sh - Drill pre - Band sa - Safe re - Safety s	esses aws trieval of drops and marking piece/part number systems ble codes and manufacturer`````		
Evaluation Process and Grading System:	Evaluation Type	Evaluation	machiner - Plate sh - Drill pre - Band sa - Safe re - Safety s - Applica recomen	ry and their safety systems. nears esses aws trieval of drops and marking piece/part number systems ble codes and manufacturer````		

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MTF133: MACHINE OPERATIONS Page 2

	Chop Saw	16%			
	Drill Press	16%			
	Ironworker	36%			
	Plate Shear	16%			
Date:	June 11, 2020				
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.				

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MTF133: MACHINE OPERATIONS Page 3