

COURSE OUTLINE: MTF235 - PATTERN & TEMPLATE 2

Prepared: Dave Holley

Approved: David Orazietti, Dean, Environment, Technology, and Business

Course Code: Title	MTF235: PATTERN AND TEMPLATE DEVELOPMENT 2		
Program Number: Name	4051: METAL FABRICATION		
Department:	IRONWKR APPR./WELDING RELATED		
Semesters/Terms:	21W		
Course Description:	In this course students will taught how to develop and layout templates and patterns, through the interpretation of drawings, using common layout and measuring tools, applying shop formulas and performing calculations to ensure the accuracy and functionality to meet the tolerances specified in the blueprints and specifications of the manufactured item.		
Total Credits:	3		
Hours/Week:	3		
Total Hours:	45		
Prerequisites:	MTF207		
Corequisites:	There are no co-requisites for this course.		
Substitutes:	MTF200		
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	 4051 - METAL FABRICATION VLO 1 Interpret blueprints and produce basic drawings and bills of materials. VLO 4 Create and use patterns and templates using common layout and measuring tools. 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, 		
Essential Employability Skills (EES) addressed in this course:	manufacturer's recommendations and approved industry standards. EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 10 Manage the use of time and other resources to complete projects. 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:	 Late hand in penalties will be -10% per day. If a student misses a test, he/she must have a valid reason (i.e. medical or family emergency 		

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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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:

Course Outcome 1	Learning Objectives for Course Outcome 1
Curriculum based on a combination of theoretical knowledge and practical (hands on) skill related to the development and creation of patterns and templates.	Develop patterns and templates employing triangulation method. oblique cones oblique cones with elliptical elements rectangle to round rectangle to elliptical reducing elbows hoppers and chutes mismatched shapes truncated shapes Use mathematical problem solving techniques to support the development of patterns. square to round tapered rectangular shapes tapered conical shapes trigonometry ratio and proportion Pythagorean theorem

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
45 Lateral	20%
Mismached Shapes	20%
Oblique Cone	20%
Reducing Elbow	20%
Tru Wye	20%

Date:

September 2, 2020

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

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