



COURSE OUTLINE: MTF108 - TRADE PRACTICES

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

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| Course Code: Title | MTF108: TRADE PRACTICES |
| Program Number: Name | 4051: METAL FABRICATION 4053: WELDING TECHNIQUES |
| Department: | IRONWKR APPR./WELDING RELATED |
| Semesters/Terms: | 20F |
| Course Description: | This course covers all of the trade calculations and basic math skills a student will require to be work in the welding trade. |
| 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. |
| Substitutes: | MTF100 |
| Vocational Learning Outcomes (VLO's) addressed in this course: | 4053 - WELDING TECHNIQUES VLO 5 Select appropriate tools and devices to perform mathematical calculations and technical measurements for successful completion of a project. |
| Please refer to program web page for a complete listing of program outcomes where applicable. | |
| Essential Employability Skills (EES) addressed in this course: | EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. |
| 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: | Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F (Fail) 49% and below 0.00 CR (Credit) Credit for diploma requirements has been awarded. |

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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S Satisfactory achievement in field /clinical placement or non-graded subject area.
 U Unsatisfactory achievement in field/clinical placement or non-graded subject area.
 X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
 NR Grade not reported to Registrar's office.
 W Student has withdrawn from the course without academic penalty.

Course Outcomes and Learning Objectives:

| Course Outcome 1 | Learning Objectives for Course Outcome 1 |
|--|---|
| Whole Numbers | Addition of whole numbers Subtraction of whole numbers Multiplication of whole numbers Division of whole numbers |
| Course Outcome 2 | Learning Objectives for Course Outcome 2 |
| Common Fractions | Intro to common fractions Measuring instruments Addition of common fractions Subtraction of common fractions Multiplication of common fractions Division of common fractions Combined operations with common fractions |
| Course Outcome 3 | Learning Objectives for Course Outcome 3 |
| Decimal Fractions | Introduction to decimal fractions, rounding, calculations. Addition and subtraction of decimal fractions Multiplication of decimals Division of decimals Decimal fractions and common fraction equivalents Tolerances Combined operations with decimal fractions Equivalent measurements |
| Course Outcome 4 | Learning Objectives for Course Outcome 4 |
| Averages, Percentages, and Multipliers | Calculating averages. Calculating percent and percentages. Calculations involving multipliers. |
| Course Outcome 5 | Learning Objectives for Course Outcome 5 |
| Metric System Measurements | The metric system of measurements English-metric equivalent unit conversions Combined operations with equivalents units |
| Course Outcome 6 | Learning Objectives for Course Outcome 6 |
| Computing Geometric Measure and Shapes | Perimeter of squares and rectangles Area of squares and rectangles. Area of triangles and trapezoids Volume of cubes and rectangular shapes Volume of rectangular containers Circumference of circles, and perimeter of semicircular-shaped figures Area of circular and semicircular figures Volume of cylindrical shapes |

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| | Volume of cylindrical and complex containers Mass (weight) measure | | | | | | |
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| Evaluation Process and Grading System: | <table> <tr> <th>Evaluation Type</th><th>Evaluation Weight</th></tr> <tr> <td>Quizzes (2 ea.)</td><td>50%</td></tr> <tr> <td>Tests (2 ea.)</td><td>50%</td></tr> </table> | Evaluation Type | Evaluation Weight | Quizzes (2 ea.) | 50% | Tests (2 ea.) | 50% |
| Evaluation Type | Evaluation Weight | | | | | | |
| Quizzes (2 ea.) | 50% | | | | | | |
| Tests (2 ea.) | 50% | | | | | | |
| Date: | June 11, 2020 | | | | | | |
| Addendum: | Please refer to the course outline addendum on the Learning Management System for further information. | | | | | | |

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