COURSE OUTLINE: MTF108 - TRADE PRACTICES

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	MTF108: TRADE PRACTICES
Program Number: Name	4051: METAL FABRICATION 4053: WELDING TECHNIQUES
Department:	IRONWKR APPR./WELDING RELATED
Semesters/Terms:	18F
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: **Please refer to program web page for a complete listing of program outcomes where applicable.**	**4053 - WELDING TECHNIQUES** 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 this course:	EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems.
Course Evaluation:	Passing Grade: 50%, D
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. 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W Student has withdrawn from the course without academic penalty.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 Volume of cylindrical and complex containers Mass (weight) measure

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight	Course Outcome Assessed
Quizzes (2 ea.)	50%	
Tests (2 ea.)	50%	

Date:	August 22, 2018
	Please refer to the course outline addendum on the Learning Management System for further information.