



COURSE OUTLINE

MTF108

Prepared: J. Paloniemi / Steve Witty Approved: Corey Meunier

Course Code: Title	MTF108: TRADE PRACTICES
Program Number: Name	4051: METAL FABRICATION
Department:	IRONWKR APPR./WELDING RELATED
Semester/Term:	17F
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
Substitutes:	MTF100
Essential Employability Skills (EES):	#3. Execute mathematical operations accurately. #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 W Student has withdrawn from the course without academic penalty.



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Evaluation Process and Grading System:

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

Course Outcomes and Learning Objectives:

Course Outcome 1.

Whole Numbers

Learning Objectives 1.

- Addition of whole numbers
- Subtraction of whole numbers
- Multiplication of whole numbers
- Division of whole numbers

Course Outcome 2.

Common Fractions

Learning Objectives 2.

- 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.

Decimal Fractions

Learning Objectives 3.



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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.

Averages, Percentages, and Multipliers

Learning Objectives 4.

Calculating averages.
Calculating percent and percentages.
Calculations involving multipliers.

Course Outcome 5.

Metric System Measurements

Learning Objectives 5.

The metric system of measurements
English-metric equivalent unit conversions
Combined operations with equivalents units

Course Outcome 6.

Computing Geometric Measure and Shapes

Learning Objectives 6.



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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

Date:

Friday, September 1, 2017

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