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| C:\Users\mgardner3\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\YR1SR102\StateFairBW Logo.jpg | **Machinist Level 1****Skills Certificate** **Overview Table of Objectives, Modules, Learning Activities, Assessments**  | C:\Users\mgardner3\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\YR1SR102\MoManufacturing Logo.PNG |

**MoManufacturingWINs**

**Overview Table of Course Components: Course Objectives, Module/Unit Objectives, Activities and Assessments**

***Complete one table for each program course developed or enhanced with grant funds.*** *Consult the SME assessment rubric to ensure you provide sufficient detail in describing learning activities and assessments to showcase the strengths of your course.*

**Course Title:\_\_\_\_\_\_MATH 107\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Course Objective** | **Module-/Unit-Level Objective** | **LEARNING Activities** | **Assessments** |
| Whole numbers | Understand and solve problems using: addition, subtraction, multiplication, and division of whole numbers |  Unit 1 | Exam |
| Common fractions | Understand and solve problems using: addition, subtraction, multiplication, and division of mixed numbers |  Unit 2 | Exam |
| Decimal fractions | Understand and solve problems using: addition, subtraction, multiplication, and division of decimal fractions | Unit 3 | Exam |
| Ratio, Proportions & Percent’s  | Understand and solve problems using: Ratio’s, proportions and substitution, Percentages | Unit 4 & 5 | Exam |
| Signed numbers | Understand and solve problems using: Powers, Roots, and Scientific Notation | Unit 6 | Exam |
| Precision, Accuracy and Tolerance  | Understand and solve problems using: Varying Degrees of precision and Tolerance, as well as computing limits and fits | Unit 7 | Exam |
| Customary Measurement Units & Metric Measurements Units | Understand and solve problems using the SAE and Metric system to solve: weight, volumes, and capacity. | Unit 8 & 9 | Exam |
| Steel Rules & Vernier Calipers & Micrometers | Understand and solve problems using: measurement in graduations of 32nds&64ths, and 50ths&100ths, micrometer reading to .0001” & .002mm | Unit 10 & 11 | Exam using measuring tools |
| Intro to Algebra | Understand and solve problems using: word statements, express diagram values as algebraic expressions | Unit 12 | Exam  |
| Basic Operations | Understand and solve problems using: addition, subtraction, multiplication, division, and roots of literal terms, simplify and solve combined operations | Unit 13 | Exam |
| Simple Equations | Understand and solve problems using: simple equations using equality and values | Unit 14 | Exam  |
| Complex Equations | Understand and solve problems using: substitution and rearranging equations  | Unit 15 | Exam |
| Cartesian Coordinate System & System of Equations | Understand and solve problems using: lineal graphs, slope, and intersections | Unit 16 & 17 | Exam |
| Quadratic Equations | Understand and solve problems using: graphic equations, consistent, inconsistent, dependent systems, Cramer’s rule  | Unit 18 | Exam |



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