

Course discipline/number/title: AMT 1900: Welding**A. CATALOG DESCRIPTION**

1. **Credits:** 2
2. **Hours/Week:** 4
3. **Prerequisites (Course discipline/number):** None
4. **Other requirements:** None
5. **MnTC Goals (if any):** NA

B. COURSE DESCRIPTION: This course covers theory and practice of oxy-acetylene, stick arc, and wire-feed welding. Students will learn theory and safety and have opportunity to learn and practice "hands on" welding and soldering skills.**C. DATE LAST REVISED (Month, year):** February, 2022**D. OUTLINE OF MAJOR CONTENT AREAS:**

1. Welding Theory and Safety
2. Oxy-Acetylene Torch Safety
3. Oxy-Acetylene Torch Usage
4. Stick Arc Welding, Shielded Metal Arc Welding (SMAW)
5. Wire-feed Welding. Metal inert Gas (MIG)
6. Automotive Wire Repair: Soldering

E. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Describe welding safety and theory.
2. Oxy-acetylene Heating/cutting
3. Select proper welding rods.
4. Stick arc weld.
5. Set up equipment
6. Wire-feed weld
7. Solder automotive wiring.

F. LEARNING OUTCOMES (MNTC): NA**G. METHODS FOR EVALUATION OF STUDENT LEARNING:** Methods may include but are not limited to:

1. Tests
2. Quizzes
3. Scoring Practice Welds/Soldering

H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s):
Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.**I. SPECIAL INFORMATION (if any):** None