

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