

# Dakota County Technical College

## ABCT 1212: Collision Repair Welding II

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers aluminum welding, resistance type spot welding, weld bonding and the I-CAR welding qualification test.

Prerequisites: ABCT1111

**B. COURSE EFFECTIVE DATES:** 08/19/2002 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

#### **D. LEARNING OUTCOMES (General)**

1. Describe I-CAR Welding Qualification Test
2. Perform I-CAR vertical plug weld
3. Perform I-CAR vertical lap weld
4. Perform I-CAR vertical butt with backing weld
5. Perform I-CAR overhead plug weld
6. Perform I-CAR overhead lap weld
7. Perform I-CAR overhead butt with backing weld
8. Visually test I-CAR welds
9. Destructive test I-CAR welds
10. Pass I-CAR Welding Qualification Test
11. Describe resistance type spot welding
12. Perform 20 resistance spot welds
13. Describe weld bonding
14. Perform weld bonding
15. Describe aluminum welding procedures
16. Perform aluminum preparation procedures
17. Perform aluminum flat lap weld
18. Perform aluminum flat plug weld
19. Perform aluminum flat butt with backing weld
20. Perform aluminum vertical lap weld
21. Perform aluminum vertical plug weld
22. Perform aluminum vertical butt with backing weld
23. Pass I-CAR Aluminum Welding Qualification Test
24. Describe aluminum cutting procedures
25. Cut aluminum
26. Describe plasma cutting
27. Perform plasma cutting
28. Perform thick metal butt with backing weld
29. Perform thick metal plug weld
30. Perform thick metal lap weld

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted