COLLISION REPAIR WELDING II — ABCT 1212

A. Course Description

- **Credits:** 2.00
- **Lecture Hours/Week:** 1.00
- **Lab Hours/Week:** 1.00
- **OJT Hours/Week:** 0
- **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: 8/19/02 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

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

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

F. Learner Outcomes Assessment

    As noted on course syllabus

G. Special Information

    None noted