

# Dakota County Technical College

## ABCT 1230: Auto Body Plastic Repair

### 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 the different methods of repairing automotive plastics. Prerequisites: ABCT1130, ABCT1142, ABCT1214 or BSEP1301, and ABCT1216.

**B. COURSE EFFECTIVE DATES:** 03/15/1998 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

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

1. Describe plastic repair safety
2. Describe plastic repair methods
3. Describe automotive plastics
4. Describe plastic identification procedures
5. Perform plastic identification
6. Describe plastic cleaning procedures
7. Perform plastic cleaning
8. Perform hot air plastic welding
9. Perform one sided airless welding on ABS
10. Perform one sided airless welding on PP
11. Perform one sided airless welding on PUR
12. Perform one sided airless welding on TPO
13. Perform stitch-tamp airless weld on ABS
14. Perform airless mounting tab fabrication
15. Perform two sided airless welding
16. Describe pinning repair methods
17. Perform one sided adhesive repair on PUR
18. Describe nitrogen plastic welding.
19. Perform two sided adhesive repair on TPO
20. Perform nitrogen plastic weld on TPO-TEO
21. Describe padded dash repair procedures
22. Perform nitrogen plastic weld on PP
23. Perform padded dash repairs
24. Describe plastic texturing procedures
25. Perform plastic texturing
26. Describe SMC repair methods
27. Perform one sided SMC repair
28. Perform two sided SMC repair
29. Replace SMC panels
30. Describe fiberglass repair
31. Perform fiberglass repair
32. Describe flexible plastic refinishing procedures
33. Perform flexible plastic refinishing
34. Describe rigid plastic refinishing procedures
35. Perform rigid plastic refinishing

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

None

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

As noted on course syllabus

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

None noted