

Minnesota State College Southeast

ABCT 1260: Non-Structural Repairs

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: *.*

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The emphasis of this course is on the removal, replacement, and proper alignment of bolt on, weld on, and adhesively mounted cosmetic panels and non-structural stationary glass. Included in this course is the analysis of upper body damage through upper body dimensions and panel fit. Available adjustments to establish proper gap and alignment are also presented and applied. (Prerequisite: ABCT1113 and instructor approval) (2 Credits: 0 lec/2 lab)

B. COURSE EFFECTIVE DATES: 10/15/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Latches and strikers
2. Outer body panels
3. Non-structural glass
4. Upper body dimensions
5. Corrosion protection
6. Perform assignments
7. Capstone project

D. LEARNING OUTCOMES (General)

1. Identify personal health and safety issues as they apply
2. Exhibit personal health and safety practices
3. Identify replacement panel sources
4. Identify the five available methods of adjustment
5. Identify latch and striker adjustment procedures
6. Adjust hood, deck lid, and door latches and strikers as assigned
7. Remove/replace vehicle innerskirts and liners
8. Remove/replace bumper/facia assemblies
9. Remove/replace grille and lamp assemblies
10. Remove/replace rear body finish panel and tail lamp assemblies
11. Identify panel alignment procedures
12. Remove/replace assigned hinged panels
13. Remove/replace assigned bolt on panels
14. Identify upper body dimensions sources
15. Identify upper body measuring tools and procedures
16. Perform upper body measuring assignments
17. Identify resistance spot weld removal procedures
18. Identify weld on panel sectioning procedures
19. Identify weld on panel temporary fastening methods
20. Remove/replace assigned weld on panels
21. Identify corrosion protection procedures
22. Identify corrosion protection materials and equipment
23. Apply corrosion protection materials
24. Cleanup corrosion protection application equipment
25. Identify panel adhesives and application equipment
26. Identify adhesive mounted panel removal procedures
27. Identify adhesive mounted panel replacement procedures
28. Identify adhesive mounted panel sectioning procedures
29. Remove/replace assigned adhesive mounted panel
30. Identify glass types and options
31. Identify non-structural stationary glass attachment methods
32. Identify stationary glass removal and replacement tools
33. Identify non-structural glass removal/replacement procedures
34. Remove and replace assigned non-structural stationary glass
35. Identify water/wind/dust leak diagnostic procedures
36. Diagnose and repair water/wind/dust leaks
37. Perform shop/equipment maintenance and clean-up duties
38. Exhibit professionalism

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted