

Minnesota State College Southeast

ABCT 1275: Production Lab 1

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: *.*

Lab Hours/Week: 8

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This lab allows student to work with skills learned in earlier courses dealing with body repairs on customer vehicle projects. Skill development and refinement is focused on with the idea of moving toward decision making on repair methods and quality control of one's own body repairs. This includes disassembly/reassembly, metal straightening and finishing, body panel adjustments, and detailing of vehicles for customer delivery. Students will utilize references and Standard Operating Procedures (S.O.P.'s) to make decisions and confirm with instructor(s) so as to gain confidence with processes. (Prerequisite: ABCT1115 and 10 additional ABCT credits) (4 credits: 0 lecture/4 Lab)

B. COURSE EFFECTIVE DATES: 02/23/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Utilization of sheet metal repair methods to point of final scuffing for refinishing
2. Disassembly and assembly of interior parts, exterior trim, lights, and under body panels
3. Body panel removal, installation, and adjustments
4. Disassembly and assembly of mechanical systems that are damaged or needing removal to gain access for repairs
5. Detailing of all areas of the vehicle and quality control inspection for customer delivery

D. LEARNING OUTCOMES (General)

1. Demonstrate safe and professional work habits
2. Protect vehicle parts and systems during repair procedures
3. Clean vehicle prior to beginning repairs
4. Establish vehicle repair file for documentation of repairs
5. Develop repair plan for vehicle and gain instructor approval
6. Inventory damaged parts and existing condition of vehicle before beginning repairs
7. Disassemble vehicle and organize all parts and identify any additional damage found during disassembly
8. Remove mechanical components to gain access or for replacement
9. Install mechanical components removed to gain access or that needed replacement
10. Replace or reinstall bolted on body panels
11. Adjust body panels so as match vehicle manufactures guidelines or similar undamaged areas of the vehicle
12. Develop repair plan and straighten sheet metal
13. Complete body filler repairs including primer surfacer to final sanding step for refinishing
14. Replace welded on cosmetic body panels
15. Reinstall body trim panels and interior parts
16. Detail vehicle for customer delivery
17. Perform quality control inspection of vehicle and document process
18. Complete all needed vehicle repair documentation files
19. Participate in shop clean-up
20. Complete weekly logs

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted