CRT 223 Collision Technician II Effective Term: Winter 2014

Course Cover

Division: Advanced Technologies and Public Service Careers **Department:** Automotive Body **Discipline:** Collision Repair Technician Course Number: 223 **Org Number:** 14110 Full Course Title: Collision Technician II Transcript Title: Collision Technician II Is Consultation with other department(s) required: No Publish in the Following: College Catalog, Time Schedule, Web Page Reason for Submission: Course Change Change Information: Course discipline code & number Course description Credit hours **Total Contact Hours** Pre-requisite, co-requisite, or enrollment restrictions **Outcomes/Assessment Objectives/Evaluation**

Rationale: Because of the length of the advanced certificate programs, student success and completion rates have been below expectations. With students unable to complete all courses because of limited offerings we are revising the program. We are combining material from CRT 221 and CRT 261 into one course and reducing the number of credit hours in the program.

Proposed Start Semester: Winter 2014

Course Description: In this course, students will be introduced to outer panel replacement including quarter panels, box sides, door skins, rocker sections, core supports, and various other weld-on panels. Selection and proper application of tools and equipment will be emphasized. This course contains material previously taught in CRT 221 and CRT 261.

Course Credit Hours

Variable hours: No Credits: 4 Lecture Hours: Instructor: 60 Student: 60 Lab: Instructor: 45 Student: 45 Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 105 Student: 105 Repeatable for Credit: NO Grading Methods: Letter Grades Audit Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites Prerequisite CRT 203 minimum grade "B"; may enroll concurrently

<u>General Education</u> <u>Request Course Transfer</u> Proposed For:

Student Learning Outcomes

1. Determine outer panel replacement and perform repairs based on diagnosis of damage. Assessment 1

Assessment Tool: Final Exam and Student Achievement Record Assessment Date: Spring/Summer 2015 Assessment Cycle: Every Three Years Course section(s)/other population: all Number students to be assessed: all How the assessment will be scored: Departmentally-developed rubric and answer key Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the final exam and achievement record. Who will score and analyze the data: Departmental faculty

- 2. Properly evaluate electrical and mechanical components in repair procedure and perform repairs.
 - Assessment 1

Assessment Tool: Final Exam and Student Achievement Record Assessment Date: Spring/Summer 2015 Assessment Cycle: Every Three Years Course section(s)/other population: all Number students to be assessed: all How the assessment will be scored: Departmentally-developed rubric and answer key Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the final exam and achievement record. Who will score and analyze the data: Departmental faculty

3. Determine and perform disassembly/assembly of welded structural components using proper repair techniques.

Assessment 1

Assessment Tool: Student Achievement Record and Final Exam Assessment Date: Spring/Summer 2015 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric and answer key Standard of success to be used for this assessment: 80% of the students will score 80% of higher on the exam and achievement record. Who will score and analyze the data: Departmental faculty

4. Demonstrate ability to identify repairable metals to determine repair or replacement requirement.

Assessment 1 Assessment Tool: Student Achievement Record and Final Exam Assessment Date: Spring/Summer 2015 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric and answer key Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the final exam and achievement record.

Who will score and analyze the data: Departmental faculty

5. Demonstrate ability to properly identify and perform metal cutting process according to materials and location on vehicle.

Assessment 1

Assessment Tool: Student Achievement Record and Final Exam Assessment Date: Spring/Summer 2015 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric and answer key Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the final exam and achievement record.

Who will score and analyze the data: Departmental faculty

6. Identify and perform different methods of attaching structural components according to industry standards.

Assessment 1

Assessment Tool: Student Achievement Record and Final Exam

Assessment Date: Spring/Summer 2015

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric and answer key

Standard of success to be used for this assessment: 80% of the students will score 80% or higher on the final exam and achievement record.

Who will score and analyze the data: Departmental faculty

Course Objectives

- 1. Explore planned classroom activities and demonstrate the ability to apply fundamental principles of collision damage repair.
 - **Matched Outcomes**
- 2. Select repair techniques.

Matched Outcomes

3. Document vehicle damage according to standards.

Matched Outcomes

1. Determine outer panel replacement and perform repairs based on diagnosis of damage.

4. Determine panel replacement (quarter, box sides, door skins, rocker sections, core supports, etc.).

Matched Outcomes

1. Determine outer panel replacement and perform repairs based on diagnosis of damage.

5. Attach anchoring devices to vehicle.

Matched Outcomes

1. Determine outer panel replacement and perform repairs based on diagnosis of damage.

6. Remove or reposition anchoring components as necessary. Matched Outcomes 1. Determine outer panel replacement and perform repairs based on diagnosis of damage.

7. Remove and reinstall all vehicle mechanical and electrical components that may interfere with or be damaged during repair.

Matched Outcomes

2. Properly evaluate electrical and mechanical components in repair procedure and perform repairs.

- 8. Determine the joint type for weld being made.
 - Matched Outcomes
- 9. Correctly perform weld selected (butt weld with backing, lap, etc.) Matched Outcomes
- 10. Reinstall or replace fixed glass using recommended materials. Matched Outcomes
- 11. Disassemble and remove damage structural components using repair techniques. Matched Outcomes
- 12. Correctly reassemble welded structural components.
 - Matched Outcomes
- 13. Determine which materials are weldable and which are non-weldable materials. Matched Outcomes
- 14. Select replacement parts based on repair criteria. Matched Outcomes
- 15. Identify cutting process for different materials and locations. Matched Outcomes
- 16. Correctly perform cutting operations.
 - Matched Outcomes
- 17. Identify different methods of attaching structural components (squeeze type resistance spot welding (STRSW), riveting, structural adhesive, silicon bronze, etc.)
 - Matched Outcomes
- 18. Determine industry standards for each repair.
 - Matched Outcomes
- 19. Appropriately attach structural components based on industry standards. Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks Manuals Periodicals Software **Equipment/Facilities**

Reviewer	Action	<u>Date</u>
Faculty Preparer:		
Scott Malnar	Faculty Preparer	Sep 09, 2013
Department Chair/Area Director:		
Scott Malnar	Recommend Approval	Sep 10, 2013
Dean:		
Marilyn Donham	Recommend Approval	Sep 24, 2013
Vice President for Instruction:		
Bill Abernethy	Approve	Oct 11, 2013