

Washtenaw Community College Comprehensive Report

CRT 203 Collision Technician I

Effective Term: Winter 2014

Course Cover

Division: Advanced Technologies and Public Service Careers

Department: Automotive Body

Discipline: Collision Repair Technician

Course Number: 203

Org Number: 14110

Full Course Title: Collision Technician I

Transcript Title: Collision Technician I

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

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 201 and CRT 241 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 study advanced repair techniques such as damage analysis, the use of computerized frame equipment, panel sectioning and non-structural collision repair. Lab activities will include the selection of proper tools to repair or replace collision damaged parts on vehicles. Students learn to repair structurally damaged conventional frame and unitized bodies. Topics such as vehicle set-up procedures and the use of hydraulic frame straightening equipment, along with body and frame construction will be covered. Information concerning mechanical component replacement, as related to the collision repair industry, is also presented. This course contains material previously taught in CRT 201 and CRT 241.

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 Math

Requisites

Prerequisite

ABR 123 minimum grade "B"
and

Prerequisite

ABR 124 minimum grade "B"
and

Prerequisite

ABR 113 minimum grade "B"
or

Prerequisite

ABR 135 minimum grade "B"

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Analyze and document vehicle damage and determine structural tolerances and 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% or higher on the final exam and achievement record.

Who will score and analyze the data: Departmental faculty

2. Analyze vehicle to determine and apply anchoring and 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% or higher on the final exam and achievement record.

Who will score and analyze the data: Departmental faculty

3. Recognize and apply appropriate repair techniques using power and hand tools.

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 exam and achievement record.

Who will score and analyze the data: Departmental faculty

4. Demonstrate proper techniques involved with sectioning steel body panels.

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 exam and achievement record.

Who will score and analyze the data: Departmental faculty

5. Apply appropriate straightening techniques using frame equipment.

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 properly evaluate mechanical, drivetrain and suspension components in repair procedure.

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. Determine the extent of the direct and indirect damage and the direction of impact; document the methods and sequence of repair.

Matched Outcomes

3. Identify heat limitations in structural components.

Matched Outcomes

4. Repair damage using power tools and hand tools to restore proper contours and dimensions.

Matched Outcomes

5. Remove and replace damaged sections of structural steel body panels.
Matched Outcomes
6. Restore corrosion protection to repaired or replaced unibody structural areas.
Matched Outcomes
7. Determine appropriate anchoring devices and points.
Matched Outcomes
8. Select repair techniques.
Matched Outcomes
9. Diagnose and measure structural damage to vehicles using a dedicated (fixture) measuring system.
Matched Outcomes
10. Appropriately document vehicle damage.
Matched Outcomes
11. Analyze misaligned or damaged steering, suspension, and powertrain components.
Matched Outcomes
12. Analyze and document vehicle damage and direction of impact.
Matched Outcomes
13. Identify heat limitations in structural components.
Matched Outcomes

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

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