

AUTOMOTIVE COLLISION & REFINISHING DIPLOMA (ACRD)

ACRD 1100 Credits: 2.5

Workplace Skills and Safety Total Hours: 50

This course focusses on occupational safety relating to the collision repair industry - from legal obligations to practical applications and procedures to ensure a safe working environment is provided to and by each student. Students learn general shop safety practices, Workplace Hazardous Materials Information Systems (WHMIS), fire prevention, personal protective equipment (PPE), emergency procedures and environmental safety such as hazardous material handling, storage and disposal. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1105 Credits: 2.5

Tools and Equipment Total Hours: 50

Students identify automotive fasteners and learn the operation, organization and maintenance of hand, electric, pneumatic, and hydraulic tools. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1130 Credits: 3.5

Communication Skills 1 Total Hours: 75

This course introduces learners to vocabulary and pronunciation specific to the field of collision repair. It provides an introduction to the collision repair industry and to the language and communication skills required for success as a technician. Reading, Writing, and Interactive Communication (Listening & Speaking) skills are taught in conjunction with topics in the collision repair curriculum. Interpersonal and conversational skills are enhanced while providing services for clients in a shop setting. Resume building and job search strategies appropriate to the Canadian workplace will be introduced and practiced. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1135 Credits: 1

Detailing 1 Total Hours: 25

This course introduces students to exterior and interior vehicle cleaning focussing on finish inspection, removing surface contaminants, stain removal and final inspections. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1140 Credits: 3.5

Welding Cutting Heating Steel1 Total Hours: 87.5

Students begin this course learning to safely perform oxyacetylene welding, cutting and heating operations to establish basic skills as a foundation for additional welding processes. Then, students learn to perform gas metal arc welding processes as well as troubleshooting, equipment maintenance and safe welding practices. Students also perform plasma arc cutting procedures. The course concludes with an industry standard weld performance qualification. This course is part of the full-time Auto Collision Repair and Refinishing Diploma program.

ACRD 1150 Credits: 3

Construction and Components 1 Total Hours: 75

This course introduces students to auto body construction types, panel alignment methods, body component service procedures, automotive glass, and the replacement of trim and hardware. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1155 Credits: 1

Estimate, Plan & Schedule 1 Total Hours: 12.5

Students learn the liabilities and obligations of the repairer as well as the expectations of today's consumer. This course also focusses on accessing and using vehicle and customer information and provides an overview of the auto insurance claim system in B.C. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1200 Credits: 4

Sheet Metal Repair Total Hours: 100

This course introduces students to the characteristics of sheet metal, types of sheet metal damage, sheet metal tools and equipment, minor sheet metal damage repair, productive organizational skills and damage analysis procedures. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1205 Credits: 3

Advanced Sheet Metal Repair Total Hours: 62.5

This course builds on ACRD 1200 Sheet Metal Repair by introducing students to complex sheet metal repair procedures including and introduction to structural straightening and measurement. Students are provided additional time to develop their sheet steel repair skills and are introduced to basic aluminum characteristics and repair techniques. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

Pre-requisite(s): ACRD 1200

ACRD 1210 Credits: 1

Plastics and Composites Total Hours: 25

This course introduces students to plastic and composite materials, tools and equipment, and repair techniques. Students learn to perform a variety of adhesive and weld repair techniques. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 1220 Credits: 3

Construction & Components 2 Total Hours: 75

This course builds on ACRD 1150 Construction and Components 1 focusing on the performance of panel alignment, body component and trim service procedures. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

Pre-requisite(s): ACRD 1150

ACRD 1230 Credits: 3.5

Communication Skills 2 Total Hours: 75

This course builds on the communication skills and strategies which were developed in ACRD 1130 Communication Skills 1. Student continue to develop vocabulary and pronunciation specific to the automotive collision industry and practice professional etiquette and teamwork. Students are assigned a series of lessons according to provincial and national essential skills profiles for collision and paint technicians. Additionally, students are also provided time to develop their estimating skills and may be provided field trip opportunities. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

Pre-requisite(s): ACRD 1130

ACRD 1240 Credits: 1

Welding Cutting Heating Steel2 Total Hours: 25

This course builds on ACRD 1140. Students learn to perform modern welding procedures including squeeze-type resistance spot welding and silicone bronze MIG welding to meet technology advances in collision repair. This course is part of the full-time Auto Collision Repair and Refinishing Diploma program.

Pre-requisite(s): ACRD 1140

ACRD 1255 Credits: 1

Estimate, Plan & Schedule 2 Total Hours: 12.5

This course builds on Estimating, Planning and Scheduling 1 with a focus on collecting customer information to aid in damage analysis, visual damage inspection and estimate/damage report terminology. Students also receive basic estimating software training. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

Pre-requisite(s): ACRD 1155

ACRD 2130 Credits: 3

Trade Practice 1 Total Hours: 75

During this course students enter the VCC body shop for a three-week work experience period. Students are working side by side with a certified journey person to perform repairs to customer vehicles as required.

This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2135 Credits: 1

Detailing 2 Total Hours: 25

This learn to identify pre-existing and post-paint surface defects and the processes to remove them. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2140 Credits: 1

Refinishing Tools & Equipment Total Hours: 25

Students learn the safe operation of all refinishing shop equipment and their functions, including spray gun cleaning, maintenance and basic operation. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2145 Credits: 4

Surface Preparation & Masking Total Hours: 100

Students learn techniques to prepare various surfaces for various refinishes. Techniques for masking vehicles for primer and paint are also a focus of this course. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2150 Credits: 4

Using Refinishing Matl & Equip Total Hours: 100

This course focuses on the prevention of paint defects through proper equipment, materials and vehicle preparation, in addition to materials application processes and techniques. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2155 Credits: 2.5

Estimate, Plan & Schedule 3 Total Hours: 50

This course builds on Estimating, Planning and Scheduling 2 with a focus on refinishing operations. Students learn to evaluate surface conditions and develop appropriate refinish plans and process timelines. Students also learn how to organize a production schedule and conform to safety and environmental legislation in B.C. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

Pre-requisite(s): ACRD 1255

ACRD 2230 Credits: 3

Trade Practice 2 Total Hours: 75

This course builds on the experienced gained in ACRD 2130 Trades Training 1, adding auto glass operations. During this course students enter the VCC body shop for a three-week work experience period. Students are working side by side with a certified journey person to perform repairs to customer vehicles as required. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2236 Credits: 3

Auto Glass Repair Replacement Total Hours: 75

Students learn to replace and repair a variety different types of glass including laminated and tempered, stationary and movable glass. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2240 Credits: 3

Advanced Refinishing Total Hours: 75

Students learn advanced colour theory and paint application techniques and are introduced to quality control standards and processes. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2250 Credits: 5

Mechanical & Electrical System Total Hours: 125

This course introduces students mechanical and electrical systems and the damage typically affected by collision impacts. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

ACRD 2255 Credits: 1

Estimate, Plan & Schedule 4 Total Hours: 25

This course builds on Estimating, Planning and Scheduling 3 with a focus on the auto glass industry. Students learn insurance claim processes in B.C. including an overview of industry-specific software and NAGS parts costing system. Students also learn pre-repair steps including pre-scanning electronics and work planning and organization. This course is part of the full-time Automotive Collision and Refinishing Diploma program.

Pre-requisite(s): ACRD 2155