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## APAP 2002: Automotive Refinishing Technician Apprenticeship Level 2

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### EFFECTIVE DATE

April 2022

### DEPARTMENT

Auto Paint - Apprenticeship

### DESCRIPTION

This course provides the Level 2 technical training component of the provincial Automotive Refinishing Technician apprenticeship program. In this course students learn application and troubleshooting techniques for sealers, basecoat/clearcoat, and multi-stage coatings including blending techniques for all. Alternate finishes such as matte, textured, marine, heavy equipment, aircraft, etc. are also addressed. Training features advanced operations and troubleshooting techniques for a variety of refinishing equipment including spray booths, mixing systems, solvent recycling machines, and drying/curing equipment. Additionally, students use OEM specifications and use estimating software to create estimates, use documentation techniques, maintain equipment maintenance and VOC logs, and the importance of the mentor role in the workplace. Students achieving a grade of 70% or greater are eligible to: - receive 90 hours ITA Technical Training credit - write the ITA Interprovincial Red Seal Exam

### CREDITS

4.0

### YEAR OF STUDY

1st Year Post-secondary

### PREREQUISITES

Students must be registered with the Industry Training Authority of B.C. (ITA) and have received an Apprenticeship Identification number; and Successful completion of the Automotive Collision and Refinishing Foundation Certificate, or ACRP 1101 Automotive Collision and Refinishing Common Core Apprenticeship Level 1, or Successful completion of the Automotive Refinishing Prep Technician Certificate (pre-April 2021)\*, or ARAP 1001 Auto Refinishing Prep Technician Apprenticeship Level 1 (pre-April 2021)\* \*Note: Students transitioning from the pre-April 2021 program are subject to a co-requisite for this course. Please refer to Course Co-requisites.

### COREQUISITES

Students transitioning from the pre-April 2021 program (Automotive Refinish Prep Technician or Automotive Refinish Prep Technician Foundation) are subject to a gap-training module as a co-requisite for this course. This 8-hour module may include online self-study material and additional face-to-face instruction, and must be successfully completed during this course.

## **COURSE LEARNING OUTCOMES**

Upon successful completion of this course, students will be able to:

- Describe water borne and solvent recycling machines (B4).
- Update and organize colour library (B5).
- Maintain mixing systems and room (B5).
- Use curing and drying equipment (B7).
- Apply environmental and jurisdictional regulations (D2).
- Use manufacturers' documentation to access OEM specifications and equipment maintenance requirements (D2).
- Contribute supplemental information to a repair estimate (D2).
- Perform inspections to evaluate the refinish area and blend requirements (D3).
- Describe production schedules process timelines, development, and maintenance (D4).
- Develop a refinish plan (D5).
- Use software to create a repair estimate (D6).
- Understand and use techniques to be an effective mentor (E2).
- Use masking techniques to mask a vehicle for topcoat (G2).
- Prepare a spray booth including pressure/temperature adjustments and troubleshooting (H2).
- Setup spray guns and verify/troubleshoot spray pattern problems (H3).
- Mix a variety of refinishing materials suitable for various applications.
- Apply primer sealers and troubleshoot problems (I2).
- Apply single-stage paint and troubleshoot problems (I3).
- Apply and blend basecoat/clearcoat and multi-stage paint (I4).
- Describe refinish problems, causes and methods for correcting (I5).
- Perform colour adjustment (I6).
- Remove masking materials (J1).
- Correct surface imperfections (J2).
- Perform final check (J3).

## **PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)**

None

## **HOURS**

Lecture: 45

Lab: 45

## **INSTRUCTIONAL STRATEGIES**

This course provides a wide range of opportunities for student learning in classroom and shop settings. In addition to hands-on practical experience at VCC's own state of the art automotive collision repair and refinishing facility learning activities such as lectures, demonstrations, individual and group project based learning strategies may be used throughout the course. Students may access learning materials and course evaluations using VCC's online course management system. Attendance and Participation Given the industrial nature of this course professional and safe work practice is of critical importance. A student may be withdrawn from the course for safety concerns

and/or an inability to meet professional practice standards due to inadequate attendance. Excused absences are those reported in advance of a scheduled class, wherever possible, or if appropriate documentation can be provided for the time missed. Other absences will be reported as unexcused, and an excess of unexcused absences may result in a student being withdrawn from the course.

## GRADING SYSTEM

Percentages-ITA

## PASSING GRADE

70%

## EVALUATION PLAN

Type	Percentage	Assessment activity
Quizzes/Tests	25	Formative theory quizzes
Exam	15	Summative theory exams
Assignments	60	In-shop practical evaluations

## COURSE TOPICS

- Refinishing Equipment Advanced Operations and Troubleshooting
- Masking and Masking Removal for Topcoats
- Advanced Coatings Application, Troubleshooting, and Blending
- Colour Adjustment
- Alternate Finishes and Products
- Estimating:
  - OEM Specifications
  - Estimating Software
  - Documenting and Photo Documentation
- Production Schedules
- Environmental Regulation Compliance
- Mentoring in the Workplace
- Surface Defect Removal
- Final Check for Quality Control

## LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

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