Automotive Refinishing Technician Course Outline

2024



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TRAINING PROFILE CHART SASKATCHEWAN

This Training Profile Chart represents Saskatchewan Apprenticeship and Trade Certification Commission (SATCC) technical training at the topic level.

Note: Level One Auto Body and Collison Technician and Automotive Refinishing Technician attend common Level One technical training. Either apprentice may switch to the other trade upon completion of level one technical training and work experience. Graduates of Saskatchewan Polytechnic's applied certificate ABCT program with sufficient work experience hours may enter Automotive Refinishing Technician apprenticeship at level two.

At this time, <u>all</u> Saskatchewan's Automotive Refinishing Technician apprentices attend technical training in Alberta at NAIT or SAIT for Level 2.

Level two Automotive Refinishing Technician apprenticeship technical training has yet to be developed. Once industry indentures sufficient, sustainable numbers of Automotive Refinishing Technician apprentices, level two will begin development.

| Sask. Polytechnic Level One (Harmonized) | Transcript Code | Hours |
|---|-------------------|-------|
| Trade Mathematics | MATH 131 – Theory | 12 |
| Matal Danair | METL 122 – Theory | 20 |
| Metal Repair | METL 123 – Shop | 36 |
| Pofinishing | PNTG 122 – Theory | 24 |
| Refinishing | PNTG 123 – Shop | 32 |
| Vahiala Rady Trim Panair | VEHC 122 – Theory | 24 |
| Vehicle Body Trim Repair | VEHC 123 – Shop | 32 |
| | | 180 |

TRAINING PROFILE CHART ALBERTA

This Training Profile Chart represents Alberta Apprenticeship and Industry Training (AIT) technical training at the topic Level 2.

| Northern and Southern Alberta Institute of Technology (NAIT, SAIT) Polytechnic Level Two (Harmonized) | Hours |
|--|-------|
| Shop Practices and Procedures | 24 |
| Product Preparation | 49 |
| Topcoat Application | 107 |
| | 180 |



TECHNICAL TRAINING COURSE OUTLINE

This chart outlines the model for Saskatchewan Apprenticeship and Trade Certification Commission (SATCC) technical training sequencing. For the harmonized level of training, a cross reference to the Red Seal Occupational Standard (RSOS) apprenticeship technical training sequencing, at the learning outcome level, is provided.

| Level O | ne | 6 weeks | | 180 hours |
|---|--|---|---|---|
| use l | nematics basic mathematics basic algebra metric system and for | rmulas | | 12 hours |
| discu identi discu descu | | ocedures o procedures ir procedures finishing procedures of fillers utting and heating procedures procedures | | 20 hours |
| use a use a demo perfo use a | onstrate knowledge c auto body hand tools auto body power tools onstrate metal workin | s ng procedures nd finish filler process | | 36 hours |
| ident desc ident desc desc desc expla desc desc desc desc | ribe preparation of pa ify methods of strippi ribe undercoat applic ify primer sealers ribe spray equipment ribe paint mixing pro- ain paint application p | ing paint cation procedures t cedures procedures paint defect correction ms | | 24 hours |
| stripapplyapply | g – Shop are panel to be painted painted panel y undercoats y primer sealers n and maintain spray | | | 32 hours |
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- mix paint
- apply paint to a panel •
- correct paint defects •
- service air supply systems
- perform an interior and exterior vehicle clean up

Vehicle Body Trim Repair – Theory

- discuss personal and shop safety •
- discuss electrical systems •
- identify fastening devices •
- describe body trim and mouldings •
- identify passenger restraint systems •
- describe plastic repair
- describe body panel replacement and alignment

Vehicle Body Trim Repair – Shop

- repair electrical systems •
- replace vehicle trim components •
- repair plastic components
- replace body panels and associated trim

Level Two 6 weeks **180** hours

Section One – Shop Practices and Procedures

Shop Maintenance

- describe spray environment set-up •
- describe air supply systems •
- describe record keeping procedures •
- describe the management of materials inventory •
- describe the management of waste materials
- identify mixing room requirements •
- maintain mixing room •
- maintain spray environment
- maintain refinishing equipment

Shop Procedures

- explain a refinish supplement •
- explain a refinish estimate •
- identify refinish work required •
- develop refinish schedule •

Saskatchewan

Commission

Apprenticeship and Trade Certification



24 hours total

18 hours

6 hours

24 hours

32 hours

| Section Two – Product Preparation | 49 hours total |
|---|-----------------|
| Topcoat Identification | 18 hours |
| identify existing substrates | |
| describe topcoat considerations for complete panel refinish | |
| describe topcoat considerations for spot repair | |
| select a formula that corresponds to a paint code. Maintain spray en | vironment |
| Mixing Identification | 4 hours |
| describe additive considerations | |
| mix paint according to specifications | |
| correct an over-pour situation when mixing paint | |
| Colour Matching | 27 hours |
| explain colour theory | |
| identify a colour mismatch | |
| adjust colour using gun technique | |
| adjust colour by tinting | |
| Section Three – Topcoat Application | 107 hours total |
| Apply Topcoat | 95 hours |
| describe topcoat application | |
| describe blending techniques and applications | |
| prepare the refinisher for topcoat application | |
| prepare the work piece for topcoat application | |
| prepare spray equipment for topcoat application | |
| perform topcoat application | |
| perform multi-stage blend repair | |
| Paint Faults | 12 hours |
| identify paint faults | |
| repair paint faults | |



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AUTOMOTIVE REFINISHING TECHNICIAN TASK MATRIX

This chart outlines the major work activities, tasks and sub-tasks from the 2019 Automotive Refinishing Technician Red Seal Occupational Standard. Each sub-task details the corresponding essential skill and level of training where the content is covered. *

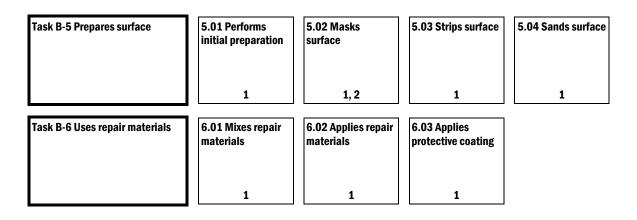
* Sub-tasks with numbers in the boxes indicate where the content will be delivered in training.

A - Performs common occupational skills 16% Task A-1 Performs safety-1.01 Maintains safe 1.02 Uses personal related functions protective workplace equipment (PPE) and safety equipment 1 1 Task A-2 Maintains tools and 2.01 Maintains 2.02 Maintains 2.03 Maintains 2.04 Maintains 2.05 Maintains shop equipment equipment hand and power spray booth spray equipment mixing equipment tools 1 1 1,2 1, 2 1 3.01 Uses 3.02 Performs 3.03 Contributes to 3.04 Organizes Task A-3 Organizes work documentation inspections development of a refinish production repair plan schedule 1,2 1,2 1, 2 1, 2 4.01 Uses 4.02 Uses Task A-4 Uses communication and mentoring techniques communication mentoring techniques techniques 1,2 1,2

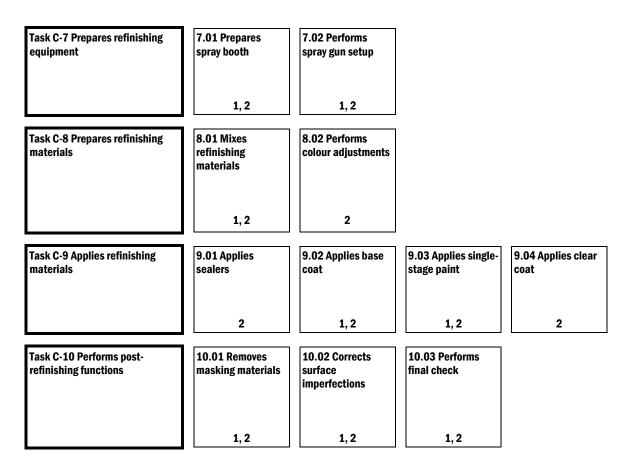


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B – Performs Preparation



C– Performs refinishing procedures



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42%

42%

*The Automotive Refinishing Technician Red Seal Occupational Standard (RSOS), describing the "full scope" of the trade, can be found at <u>www.red-seal.ca.</u>

For more detailed information on course content, please refer to the Automotive Refinishing Technician Guide to Course Content at <u>www.saskapprenticeship.ca.</u>

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