



# **Recreation Vehicle Service Technician Course Outline**

**2024**

# TRAINING PROFILE CHART ALBERTA

At this time, all Saskatchewan's Recreation Vehicle Service Technician apprentices attend technical training in Alberta at Southern Alberta Institute of Technology Polytechnic (SAIT) located in Calgary, AB.

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

<b>Southern Alberta Institute of Technology (NAIT, SAIT) Polytechnic Level One</b>	<b>Hours</b>
Standard Workplace Safety, Industry Overview, Regulations and Administration	38
Plumbing	24
Liquefied Petroleum (LP) Systems	44
Direct Current (DC) Electrical Systems	48
Appliance Operation and Accessories	44
Mechanical and Towing Systems	42
	240

<b>Northern and Southern Alberta Institute of Technology (NAIT, SAIT) Polytechnic Level Two</b>	<b>Hours</b>
Standard Practices and Procedures	24
Alternating Current (AC) Electrical Systems	54
Consumer Products	24
Appliances	53
Exterior Structures	61
Mechanical and Suspension Systems	24
	240

<b>Northern and Southern Alberta Institute of Technology (NAIT, SAIT) Polytechnic Level Three</b>	<b>Hours</b>
Inverter And Solar Systems	30
Appliances	80
Interior Structures and Components	30
Slide outs and Levelling Systems	50
Auxiliary Fueling Systems and Specialty Haulers	25
Welding, Coaching, Certification and Committees	25
	240

# TECHNICAL TRAINING COURSE OUTLINE

This chart outlines the model for Alberta Apprenticeship and Trade Certification technical training sequencing. For the harmonized level of training, a cross reference to the National Occupational Analysis (NOA) apprenticeship technical training sequencing, at the learning outcome level, is provided.

<b>Level One</b>	<b>8 weeks</b>	<b>240 hours</b>
<b>Section One- Standard Workplace Safety, Industry Overview, Regulations and Administration</b>		<b>38 hours total</b>
<b>Safety Legislation, Regulations and Industry Policy in the Trades</b>		<b>4 hours</b>
<ul style="list-style-type: none"> <li>• Demonstrate the application of the Occupational Health and Safety Act, Regulation and Code.</li> <li>• Describe the employer's and employee's role with Occupational Health and Safety (OH&amp;S) regulations, Worksite Hazardous Materials Information Systems (WHMIS), fire regulations, Workers Compensation Board regulations and related advisory bodies and agencies.</li> <li>• Describe industry practices for hazard assessment and control procedures.</li> <li>• Describe the responsibilities of worker and employers to apply emergency procedures.</li> <li>• Describe tradesperson attitudes with respect to housekeeping, personal protective equipment and emergency procedures.</li> <li>• Describe the roles and responsibilities of employers and employees with the selection and use of personal protective equipment (PPE).</li> <li>• Maintain required PPE for tasks.</li> <li>• Use required PPE for tasks.</li> </ul>		
<b>Climbing, Lifting, Rigging and Hoisting</b>		<b>3 hours</b>
<ul style="list-style-type: none"> <li>• Describe manual lifting procedures.</li> <li>• Describe rigging hardware and associated safety factors.</li> <li>• Select equipment for rigging loads.</li> <li>• Describe hoisting and load moving procedures.</li> <li>• Maintain personal protective equipment (PPE) for climbing, lifting and load moving equipment.</li> <li>• Use PPE for climbing, lifting and load moving equipment.</li> </ul>		
<b>Hazardous Materials and Fire Protection</b>		<b>3 hours</b>
<ul style="list-style-type: none"> <li>• Describe roles, responsibilities, features and practices related to the Workplace Hazardous Materials Information System (WHMIS) program.</li> <li>• Describe three key elements of WHMIS.</li> <li>• Describe handling, storing and transporting procedures for hazardous material.</li> <li>• Describe venting procedures when working with hazardous materials.</li> <li>• Describe hazards, classes, procedures and equipment related to fire protection.</li> </ul>		
<b>Apprenticeship Orientation</b>		<b>2 hours</b>
<ul style="list-style-type: none"> <li>• Describe the contractual responsibilities of the apprentice, employer and Apprenticeship and Industry Training.</li> <li>• Describe the purpose of the apprentice record book.</li> <li>• Describe the procedure for changing employers during an active apprenticeship.</li> <li>• Describe the purpose of the course outline.</li> <li>• Describe the procedure for progressing through an apprenticeship.</li> </ul>		

<b>Tools and Equipment</b>	<b>4 hours</b>
<ul style="list-style-type: none"> <li>• Describe the types and application of tools and equipment.</li> <li>• Describe the procedures for maintaining tools and equipment.</li> <li>• Maintain tools and equipment.</li> <li>• Use tools and equipment</li> </ul>	
<b>Cleaning Procedures</b>	<b>2 hours</b>
<ul style="list-style-type: none"> <li>• Describe methods and products used for spot cleaning recreation vehicles.</li> <li>• Describe the hazards associated with cleaning products and procedures.</li> </ul>	
<b>Vehicle Identification Number (VIN) Plates and Labels</b>	<b>2 hours</b>
<ul style="list-style-type: none"> <li>• Describe the types and purpose of labels applicable to recreation vehicles.</li> <li>• Interpret information on VIN plates and labels</li> </ul>	
<b>Cutting and Heating</b>	<b>10 hours</b>
<ul style="list-style-type: none"> <li>• Describe cutting and heating operations permitted within the scope of this trade.</li> <li>• Describe the characteristics and handling of cutting and heating gases.</li> <li>• Describe the components of cutting and heating equipment.</li> <li>• Perform a leak check on cutting and heating equipment.</li> <li>• Describe the procedure for adjusting cutting and heating equipment.</li> <li>• Demonstrate the procedure for storing and maintaining cutting and heating equipment.</li> <li>• Perform cutting and heating operations.</li> </ul>	
<b>Pre-Delivery Inspection (PDI)</b>	<b>6 hours</b>
<ul style="list-style-type: none"> <li>• Describe the purpose of a PDI.</li> <li>• Describe PDI procedures.</li> <li>• Describe the purpose of PDI documentation.</li> <li>• Describe PDI tasks specific to recreation vehicle designs.</li> <li>• Perform a PDI.</li> </ul>	
<b>Motorhome Controls</b>	<b>2 hours</b>
<ul style="list-style-type: none"> <li>• Describe the operation of motorhome control systems.</li> <li>• Describe the purpose of motorhome safety equipment.</li> <li>• Describe codes, regulations and liabilities relating to motorhomes.</li> <li>• Describe diesel engine start-up procedures.</li> <li>• Describe the operation of air brake systems.</li> </ul>	
<b>Section Two- Plumbing</b>	<b>24 hours total</b>
<b>Potable Water Systems</b>	<b>9 hours</b>
<ul style="list-style-type: none"> <li>• Describe the components and operation of potable water systems.</li> <li>• Describe the procedure for installing and servicing potable water systems.</li> <li>• Identify codes for potable water systems.</li> <li>• Service potable water systems.</li> </ul>	
<b>Waste Water Systems</b>	<b>9 hours</b>
<ul style="list-style-type: none"> <li>• Describe the components and operation of waste water systems.</li> <li>• Describe the procedure for installing and servicing waste water systems.</li> <li>• Identify codes for waste water systems.</li> <li>• Service waste water systems.</li> </ul>	

<b>Winterizing and De-Winterizing</b>	<b>2 hours</b>
<ul style="list-style-type: none"> <li>Describe the types and applications of plumbing antifreeze.</li> <li>Describe winterizing and de-winterizing procedures.</li> </ul>	
<b>Service Monitoring Systems</b>	<b>4 hours</b>
<ul style="list-style-type: none"> <li>Describe the components, principles of operation and owner procedures for monitoring systems.</li> <li>Describe servicing of monitor panels and sensors.</li> </ul>	
<b>Section Three- Liquefied Petroleum Gas (LP) Systems</b>	<b>44 hours total</b>
<b>Propane Systems</b>	<b>44 hours</b>
<ul style="list-style-type: none"> <li>Describe the properties of propane.</li> <li>Describe safety procedures for working with propane.</li> <li>Describe the types and applications of propane storage vessels.</li> <li>Describe the requirements for inspecting, recertifying and filling propane storage vessels.</li> <li>Describe the purpose of propane system components.</li> <li>Describe the operation of propane system components.</li> <li>Describe the operation of leak detectors.</li> <li>Identify codes for propane systems.</li> <li>Perform a leak and pressure test.</li> <li>Perform operations to make connections in propane systems.</li> <li>Adjust a propane regulator.</li> </ul>	
<b>Section Four- Direct Current (DC) Electrical Systems</b>	<b>48 hours total</b>
<b>DC electrical systems</b>	<b>33 hours</b>
<ul style="list-style-type: none"> <li>Describe electrical principles.</li> <li>Describe the function and operation of dc circuits and circuit components.</li> <li>Describe the use of schematics in servicing dc electrical systems.</li> <li>Construct dc electrical circuits.</li> <li>Identify codes for dc electrical systems.</li> <li>Service DC components and circuits.</li> </ul>	
<b>Batteries</b>	<b>15 hours</b>
<ul style="list-style-type: none"> <li>Identify the types and application of batteries.</li> <li>Describe the principles of battery operation.</li> <li>Describe the procedure for storing and installing batteries.</li> <li>Describe the procedure for testing, recharging and boosting batteries.</li> <li>Identify the types of battery disconnect devices and systems.</li> </ul>	
<b>Section Five- Appliances and Accessories</b>	<b>44 hours total</b>
<b>Appliances Operation and Replacement</b>	<b>12 hours</b>
<ul style="list-style-type: none"> <li>Describe the general operation of RV appliances.</li> <li>Describe the precautions and procedures for removing and installing RV appliances.</li> </ul>	
<b>Interior Accessories and Safety Components</b>	<b>12 hours</b>
<ul style="list-style-type: none"> <li>Describe the purpose of interior accessories and safety components.</li> <li>Describe the operation of interior accessories and safety components.</li> <li>Describe the procedure for installing and servicing interior accessories and safety components.</li> </ul>	

<b>Exterior Accessories</b>	<b>20 hours</b>
<ul style="list-style-type: none"> <li>• Describe the procedure for installing and servicing awnings.</li> <li>• Describe the procedure for installing and servicing screen rooms.</li> <li>• Describe the procedure for installing aftermarket/optional exterior accessories.</li> <li>• Describe the procedure for installing and servicing back-up alarms and monitoring devices.</li> <li>• Describe the procedure for installing and servicing steps.</li> </ul>	
<b>Section Six- Mechanical and Towing Systems</b>	<b>42 hours total</b>
<b>Tow Vehicle</b>	<b>6 hours</b>
<ul style="list-style-type: none"> <li>• Describe the requirements and procedure for installing wiring trailer connections on a tow vehicle.</li> <li>• Describe the operation, application and installation of charging system isolators and relays.</li> </ul>	
<b>Hitch Systems</b>	<b>12 hours</b>
<ul style="list-style-type: none"> <li>• Describe the types and application of hitch and tow systems.</li> <li>• Describe the procedure for installing and adjusting hitch and tow systems.</li> <li>• Describe the types and application of sway control devices.</li> <li>• Describe the purpose and requirements for safety chains.</li> <li>• Describe methods, regulations and applications for dinghy towing.</li> </ul>	
<b>Brake Systems</b>	<b>6 hours</b>
<ul style="list-style-type: none"> <li>• Describe the components and operation of brake systems.</li> <li>• Describe the procedure for installing a tow vehicle brake control system.</li> <li>• Service brake systems and components.</li> </ul>	
<b>Undercarriage</b>	<b>12 hours</b>
<ul style="list-style-type: none"> <li>• Describe the purpose of undercarriage components.</li> <li>• Describe the construction of trailer frames.</li> <li>• Describe axle types, suspension systems and weight ratings.</li> <li>• Describe the procedure for aligning an axle.</li> <li>• Describe wheel and tire types and ratings.</li> <li>• Describe tire wear patterns and causes.</li> <li>• Describe types of landing gear and trailer tongue jacks.</li> <li>• Describe the procedure for servicing landing gear and trailer tongue jacks.</li> <li>• Perform wheel and tire balance.</li> <li>• Service wheel bearings and seals</li> </ul>	

<b>Level Two</b>	<b>8 weeks</b>	<b>240 hours</b>
<b>Section One- Standard Practices and Procedures</b>		<b>24 hours total</b>
<b>Work Orders</b>		<b>4 hours</b>
<ul style="list-style-type: none"> <li>• Describe purpose and types of work orders.</li> <li>• Describe air supply systems.</li> <li>• Describe procedure for documenting parts, labour and shop supplies.</li> </ul>		
<b>Estimating</b>		<b>10 hours</b>
<ul style="list-style-type: none"> <li>• Describe the purpose and types of estimates.</li> <li>• Describe estimating policies and procedures.</li> <li>• Perform an estimate.</li> </ul>		
<b>Warranty and Recall Procedures</b>		<b>2 hours</b>
<ul style="list-style-type: none"> <li>• Describe warranty policies and procedures.</li> <li>• Describe the procedure for processing recalls and service bulletins.</li> </ul>		
<b>Parts Catalogues and Related References</b>		<b>4 hours</b>
<ul style="list-style-type: none"> <li>• Describe warranty policies and procedures.</li> <li>• Describe the procedure for processing recalls and service bulletins.</li> </ul>		
<b>Customer Relations</b>		<b>4 hours</b>
<ul style="list-style-type: none"> <li>• Describe how to provide courtesy to a customer and project a professional image.</li> <li>• Identify how to address customer needs and expectations.</li> <li>• Describe expectations for professional conduct during customer communications.</li> </ul>		
<b>Section Two- Alternating Current (AC) Electrical Systems</b>		<b>54 hours total</b>
<b>AC Electrical System Service</b>		<b>24 hours</b>
<ul style="list-style-type: none"> <li>• Describe the difference between ac and dc circuits.</li> <li>• Describe safety precautions used when servicing ac electrical systems.</li> <li>• Describe the purpose and operation of ac circuit components.</li> <li>• Describe the purpose and operation of Energy Management Systems.</li> <li>• Describe codes for ac electrical systems.</li> </ul>		
<b>Generators</b>		<b>20 hours</b>
<ul style="list-style-type: none"> <li>• Describe safety hazards associated with generators.</li> <li>• Calculate output requirements for generators.</li> <li>• Describe the procedure for installing generators.</li> <li>• Describe codes for generator systems.</li> <li>• Describe the procedure for servicing generators.</li> <li>• Test generator output.</li> </ul>		
<b>Converters and Charging Systems</b>		<b>10 hours</b>
<ul style="list-style-type: none"> <li>• Describe types of converters and charging systems.</li> <li>• Describe the operation of converters and charging systems.</li> <li>• Describe the operation of power centers.</li> <li>• Describe the procedure for servicing converters, power centers and charging systems.</li> <li>• Calculate convertor requirements.</li> </ul>		

---

**Section Three- Consumer Products** **24 hours total**

---

**Consumer Media Products** **24 hours**

- Describe the types of consumer media products.
  - Describe the general operation and set up procedures for common consumer products.
  - Describe the procedure for installing and servicing entertainment systems.
  - Describe the procedure for installing and servicing antennae and satellite systems.
- 

**Section Four- Appliances** **53 hours total**

---

**Cooking Equipment** **5 hours**

- Describe the types of cooking equipment.
  - Describe the purpose and operation of cooking equipment components.
  - Describe codes relating to cooking equipment.
  - Describe the procedure for servicing cooking equipment.
- 

**Water Heating Systems** **13 hours**

- Describe the types of water heating systems.
  - Describe the purpose and operation of water heating system components.
  - Describe codes for water heating systems.
  - Service water heating systems.
- 

**Heating Systems** **35 hours**

- Describe the types and operation of heating systems.
  - Describe the purpose and operation of heating systems components.
  - Describe the types and operation of thermostats and climate controls.
  - Describe codes for heating systems.
  - Describe the procedure for servicing heating systems.
- 

**Section Five- Exterior Structures** **61 hours total**

---

**Exterior Surfaces, Components and Structures** **41 hours**

- Describe framing and insulating methods, materials and design.
  - Describe the types of exterior finishes.
  - Describe the procedure for servicing framing.
  - Describe the procedure for servicing exterior components.
  - Describe the procedure for replacing fiber reinforced plastic (FRP).
  - Describe the types of material used in windows.
  - Describe the types of roof construction.
  - Describe the procedure for servicing roofing systems.
  - Describe the procedure for preparing units for cold weather use.
  - Describe the design and construction of slide-out rooms.
  - Describe the procedure for servicing interior walls, ceiling coverings and panels.
  - Identify codes relating to the servicing of exterior structures.
  - Replace metal siding.
  - Service structural and exterior components.
- 

**Body Panels** **15 hours**

- Describe the composition of body panels and components.
- Describe the procedure for servicing FRP, fibre glass panels and components.
- Describe the procedure for servicing plastic components.
- Describe the procedure for installing and replacing decals and graphics.



---

**Camper Tie-Down Systems And Jacks****5 hours**

- Describe the types and capacities of tie down systems.
  - Describe the types and capacities of camper jacks.
  - Describe the procedure for installing and servicing camper jacks.
  - Describe the procedure for installing and servicing tie down systems.
- 

**Section Six-Mechanical and Suspension Systems****24 hours total****Suspension Aids****16 hours**

- Describe trailer frame types and features.
  - Describe types of suspension systems.
  - Describe the effect of add-on suspension aids.
  - Describe the effect of vehicle modifications on suspension operation.
  - Describe the procedure for installing suspension aids.
  - Describe the procedure for adjusting suspension aids.
  - Describe the procedure for servicing suspension aids.
- 

**Lift and Wall Systems****8 hours**

- Describe the types of lift systems.
- Describe the operation of lift systems.
- Describe the servicing of lift systems.
- Describe the procedure for servicing wall systems.

<b>Level Three</b>	<b>8 weeks</b>	<b>240 hours</b>
<b>Section One- Inverter and Solar Panels</b>		<b>30 hours total</b>
<b>Solar Systems</b>		<b>15 hours</b>
<ul style="list-style-type: none"> <li>• Describe the purpose of solar charging system components.</li> <li>• Describe the operation and application of solar charging systems.</li> <li>• Describe the procedure for installing solar charging systems.</li> <li>• Size a solar charging and battery system to meet customer requirements.</li> <li>• Describe the procedure for expanding a solar charging system to match higher requirements.</li> <li>• Describe the procedure for servicing a solar charging system.</li> <li>• access installation area by removing items such as panels, seats and cabinets</li> <li>• adjust area to accommodate new components by making modifications such as enlarging installation area, changing location and adding ventilation</li> <li>• install components such as receptacles, inverters, converters, switches and breakers</li> <li>• verify AC power supply and distribution system operation to ensure compliance with manufacturers' specifications</li> </ul>		
<b>Inverter Systems</b>		<b>15 hours</b>
<ul style="list-style-type: none"> <li>• Describe the purpose and operation of an inverter system.</li> <li>• Describe types of inverters and remote control panels.</li> <li>• Describe the procedure for installing an inverter system.</li> <li>• Calculate power draws, battery requirements, cable sizes and load protection devices.</li> <li>• Describe the procedure for servicing inverter systems</li> </ul>		
<b>Section Two-Appliances</b>		<b>80 hours total</b>
<b>Air Conditioning and Heat Pumps</b>		<b>20 hours</b>
<ul style="list-style-type: none"> <li>• Describe the types of air conditioners and heat pumps.</li> <li>• Describe the purpose of air conditioner and heat pump components.</li> <li>• Describe types and operation of thermostats and climate controls.</li> <li>• Describe the procedure for servicing air conditioners and heat pump systems.</li> <li>• Describe the procedure for disposing, reclaiming and recycling refrigerants.</li> <li>• Describe codes for air conditioners and heat pumps.</li> </ul>		
<b>Refrigerators</b>		<b>35 hours</b>
<ul style="list-style-type: none"> <li>• Describe the types and operation of refrigerators.</li> <li>• Describe the purpose of refrigerator components.</li> <li>• Describe the procedure for servicing refrigerators.</li> <li>• Describe codes related to refrigerators.</li> <li>• Service refrigerators.</li> </ul>		
<b>Appliance Products</b>		<b>10 hours</b>
<ul style="list-style-type: none"> <li>• Describe types of appliance and consumer products.</li> <li>• Describe the procedure for servicing appliances and consumer products.</li> <li>• Describe the procedure for installing appliance and consumer products.</li> </ul>		
<b>Electronic Control Systems</b>		<b>15 hours</b>
<ul style="list-style-type: none"> <li>• Describe the operation of electronic components.</li> <li>• Describe precautions required for handling electronics.</li> <li>• Service the wiring connection to an electronic component.</li> </ul>		

- Describe common faults in electronic components.
- Test electronic components.

---

### **Section Three- Interior Structures and Components**

**30 hours total**

---

#### **Cabinets, Furnishings, and Flooring**

**30 hours**

- Describe the types of material used in counter top construction.
- Describe the procedure for servicing countertops.
- Describe the types of materials used in cabinet construction.
- Describe the procedure for servicing cabinet structures.
- Describe the procedure for servicing cabinet trim, doors and hardware.
- Describe the procedure for servicing drawers and hardware.
- Describe the procedure for servicing upholstery components.
- Describe the procedure for servicing window coverings, blinds and valances.
- Describe the procedure for servicing floor coverings.
- Service interior components.

---

### **Section Four- Slide Outs and Levelling Systems**

**50 hours total**

---

#### **Hydraulic Systems**

**15 hours**

- Describe the function of hydraulic system components.
- Describe hydraulic system operation, applications and testing.
- Describe the procedure for servicing hydraulic system components.
- Describe the procedure for adjusting hydraulic systems.
- Describe safety procedures relating to hydraulic systems.
- Test a hydraulic system.

---

#### **Slide Out Systems**

**20 hours**

- Describe the purpose of slide out system components.
- Describe the operation of slide out systems.
- Describe the procedure for servicing slide out systems.
- Describe procedure for adjusting, removing and replacing slide out rooms.

---

#### **Levelling Systems**

**15 hours**

- Describe the purpose of levelling systems.
- Describe types of levelling systems.
- Describe the purpose of levelling system components.
- Describe the operation of levelling systems.
- Describe the procedure for installing levelling systems.
- Describe the procedure for servicing levelling systems.

---

### **Section Five- Auxiliary Fueling Systems and Specialty Haulers**

**25 hours total**

---

#### **Auxiliary Fueling Systems**

**15 hours**

- Describe the properties of gasoline and diesel fuel.
- Describe auxiliary fuel system components.
- Describe the procedure for handling fuel.
- Describe the procedure for dispensing fuel.
- Identify codes for auxiliary fuel systems.

---

#### **Specialty Haulers**

**10 hours**

- Describe the purpose of speciality hauler components.
- Describe the operation of speciality hauler components
- Describe the types of materials used in constructing speciality haulers.

- Describe the design and ventilation requirements.
- Describe codes and safety procedures relating to the servicing of speciality haulers.

---

**Section Six- Welding, Coaching, Certification and Committees** **25 hours total**

---

**Gas Metal Arc Welding (GMAW)** **15 hours**

- Describe the welding operations permitted within the scope of this trade.
- Describe the function of GMAW components of GMAW equipment.
- Describe the operation of GMAW equipment.
- Describe troubleshooting of GMAW equipment.
- Demonstrate material preparation.
- Perform the sequence of start-up and shut down of GMAW equipment.
- Perform tack welds using GMAW.

---

**Workplace Coaching Skills** **4 hours**

- Describe the process for coaching an apprentice

---

**Alberta's Industry Network** **2 hours**

- Describe Alberta's Apprenticeship and Industry Training system.
- Describe roles and responsibilities of the Alberta Apprenticeship and Industry Training Board, the Government of Alberta and post-secondary institutions.
- Describe roles and responsibilities of the Provincial Apprenticeship Committees (PACs), Local Apprenticeship Committees (LACs) and Occupational Committees (OCs).

---

**Interprovincial Standards Red Seal Program** **4 hours**

- Identify Red Seal products used to develop Interprovincial examinations.
- Use Red Seal products to prepare for an Interprovincial examination.

# RECREATION VEHICLE SERVICE TECHNICIAN

## TASK MATRIX

This chart outlines the major work activities, tasks and sub-tasks from the 2012 Recreation Vehicle Service National Occupational Analysis. Each sub-task details the corresponding essential skill and level of training where the content is covered. \*

\* Sub Tasks with numbers in the boxes is where the content will be delivered in training.

### A – Common occupational skills

8%

<b>A-1 Performs safety-related activities</b>	<b>A-1.01 Uses personal protective equipment (PPE) and safety equipment</b>  <b>1</b>	<b>A-1.02 Maintains safe work environment</b>  <b>1</b>	
<b>A-2 Uses and maintains tools and equipment</b>	<b>A-2.01 Maintains tools and equipment</b>  <b>1,3</b>	<b>A-2.02 Uses lifting, moving and access equipment</b>  <b>1</b>	
<b>A-3 Performs common work practices and procedures</b>	<b>A-3.01 Uses blueprints, drawings, schematics and sketches</b>  <b>2</b>	<b>A-3.02 Identifies outstanding recalls and service bulletins</b>  <b>1,2</b>	<b>A-3.03 Performs pre-delivery inspections (PDI)</b>  <b>1</b>

## B – Plumbing systems

11%

<b>B-4 Diagnoses plumbing systems</b>	<b>B-4.01 Diagnoses potable water systems</b> 1	<b>B-4.02 Diagnoses waste water systems</b> 1	
<b>B-5 Services potable water systems</b>	<b>B-5.01 Maintains potable water systems</b> 1	<b>B-5.02 Repairs potable water systems</b> 1	<b>B-5.03 Installs potable water systems</b> 1
<b>B-6 Services waste water systems</b>	<b>B-6.01 Maintains waste water systems</b> 1	<b>B-6.02 Repairs waste water systems</b> 1	<b>B-6.03 Installs waste water system components</b> 1

## C – Electrical systems

18%

<b>C-7 Diagnoses electrical systems</b>	<b>C-7.01 Diagnoses AC electrical and power supply systems</b> 2,3	<b>C-7.02 Diagnoses DC electrical and power supply systems</b> 1,2,3	
<b>C-8 Services AC electrical systems</b>	<b>C-8.01 Maintains AC electrical and power supply systems</b> 1,2,3	<b>C-8.02 Repairs AC power supply and distribution system</b> 2,3	<b>C-8.03 Installs AC power supply and distribution system components</b> 2,3
<b>C-9 Services DC electrical systems</b>	<b>C-9.01 Maintains DC electrical and power supply systems</b> 1,2,3	<b>C-9.02 Repairs DC power supply and distribution systems</b> 1,2,3	<b>C-9.03 Installs DC power supply and distribution system components</b> 1,2,3

## D – Liquefied petroleum (LP) gas systems

16%

<b>D-10 Diagnoses LP gas systems</b>	<b>D-10.01 Diagnoses LP gas supply systems (high pressure)</b> 1	<b>D-10.02 Diagnoses LP gas distribution systems (low pressure)</b> 1	
<b>D-11 Services LP gas systems</b>	<b>D-11.01 Maintains LP gas systems</b> 1	<b>D-11.02 Repairs LP gas systems and components</b> 1	<b>D-11.03 Installs LP gas systems and components</b> 1

## E – Appliances and consumer products

17%

<b>E-12 Maintains appliances</b>	<b>E-12.01 Maintains water heaters and components</b> 1,2	<b>E-12.02 Maintains furnaces and components</b> 1,2	<b>E-12.03 Maintains ranges and ovens</b> 1,2	<b>E-12.04 Maintains refrigerators and ice makers</b> 1, 3	<b>E-12.05 Maintains air conditioners and heat pump systems</b> 1, 3
<b>E-13 Diagnoses appliances</b>	<b>E-13.01 Diagnoses water heaters</b> 2	<b>E-13.02 Diagnoses furnaces</b> 2	<b>E-13.03 Diagnoses ranges and ovens</b> 2	<b>E-13.04 Diagnoses refrigerators and ice makers</b> 3	<b>E-13.05 Diagnoses air conditioners and heat pumps</b> 2,3
<b>E-14 Repairs appliances and consumer products</b>	<b>E-14.01 Repairs Water Heaters</b> 2	<b>E-14.02 Repairs furnaces</b> 2	<b>E-14.03 Repairs ranges and ovens</b> 2	<b>E-14.04 Repairs refrigerators and ice makers</b> 3	<b>E-14.05 Repairs air conditioners and heat pumps</b> 3
	<b>E-14.06 Replaces consumer products</b> 1,2,3				
<b>E-15 Installs appliances and consumer products</b>	<b>E-15.01 Installs appliances and components</b> 2,3	<b>E-15.02 Installs consumer products and components</b> 1,2,3			

## F – Interior and exterior components

10%

<b>F-16 Diagnoses interior and exterior components</b>	<b>F-16.01 Diagnoses interior components</b>  1,2,3	<b>F-16.02 Diagnoses exterior components</b>  1,2	
<b>F-17 Services interior components</b>	<b>F-17.01 Maintains interior components</b>  1,2,3	<b>F-17.02 Repairs interior components</b>  1,2,3	<b>F-17.03 Installs interior components</b>  1,2,3
<b>F-18 Services exterior components</b>	<b>F-18.01 Maintains exterior components</b>  1,2	<b>F-18.02 Repairs exterior components</b>  1,2	<b>F-18.03 Installs exterior components</b>  1,2

## G – Chassis and mechanical components

13%

<b>G-19 Maintains chassis and mechanical components</b>	<b>G-19.01 Maintains frames</b>  1,2,3	<b>G-19.02 Maintains running gear</b>  1,3	<b>G-19.03 Maintains levelling systems</b>  1,3	<b>G-19.04 Maintains slide-out and lifting systems</b>  2, 3	<b>G-19.05 Maintains generators</b>  2,3
<b>G-20 Diagnoses chassis and mechanical components</b>	<b>G-20.01 Diagnoses frames</b>  1,2	<b>G-20.02 Diagnoses running gear</b>  1,3	<b>G-20.03 Diagnoses leveling systems</b>  1,3	<b>G-20.04 Diagnoses slide-out and lifting systems</b>  1,2,3	<b>G-20.05 Diagnoses generators</b>  2,3
<b>G-21 Repairs chassis and mechanical systems</b>	<b>G-21.01 Repairs frames and components</b>  (Not Common Core) 1,2	<b>G-21.02 Repairs running gear</b>  1	<b>G-21.03 Repairs leveling systems</b>  3	<b>G-21.04 Repairs slide-out and lifting systems</b>  2,3	<b>G-21.05 Repairs generators</b>  2,3



**G-22 Installs chassis and mechanical components**

**G-22.01 Installs levelling systems and components**  
  
3

**G-22.02 Installs generators**  
  
2

## H – Towing systems

**7%**

**H-23 Diagnoses towing systems**

**H-23.01 Diagnoses tow vehicle systems**  
  
2,3

**H-23.02 Diagnoses towed vehicle systems**  
  
2,3

**H-24 Services towing systems**

**H-24.01 Maintains tow vehicle systems**  
  
1,2,3

**H-24.02 Maintains towed vehicle systems**  
  
1,2,3

**H-24.03 Installs tow vehicle systems and components**  
  
2,3

**H-24.04 Installs towed vehicle systems and components**  
  
2,3

## D – Liquefied petroleum (LP) gas systems

**15%**

**Task D-12 Diagnoses LP gas systems**

**D-12.01 Diagnoses LP gas supply systems (high pressure)**  
  
2

**D-12.02 Diagnoses LP gas distribution systems (low pressure)**  
  
2

**Task D-13 Services LP gas systems**

**D-13.01 Maintains LP gas systems**  
  
1

**D-13.02 Repairs LP gas systems**  
  
1,2,3

**D-13.03 Installs LP gas systems**  
  
1,2,3

# E – Appliances and consumer products

**15%**

<b>Task E-14</b> <b>Diagnoses appliances</b>	<b>E-14.01 Diagnoses water heaters</b>  <p style="text-align: center;">2</p>	<b>E-14.02 Diagnoses furnaces</b>  <p style="text-align: center;">2,3</p>	<b>E-14.03 Diagnoses cooktops and ranges</b>  <p style="text-align: center;">2</p>	<b>E-14.04 Diagnoses refrigerators and ice makers</b>  <p style="text-align: center;">2,3</p>	<b>E-14.05 Diagnoses air conditioners and heat pumps</b>  <p style="text-align: center;">2,3</p>
<b>Task E-15</b> <b>Services water heaters</b>	<b>E-15.01 Maintains water heaters</b>  <p style="text-align: center;">1</p>	<b>E-15.02 Repairs water heaters</b>  <p style="text-align: center;">2</p>	<b>E-15.03 Installs water heaters</b>  <p style="text-align: center;">2</p>		
<b>Task E-16</b> <b>Services furnaces</b>	<b>E-16.01 Maintains furnaces</b>  <p style="text-align: center;">1,2,3</p>	<b>E-16.02 Repairs furnaces</b>  <p style="text-align: center;">2,3</p>	<b>E-16.03 Installs furnaces</b>  <p style="text-align: center;">2,3</p>		
<b>Task E-17</b> <b>Services cooktops and ranges</b>	<b>E-17.01 Maintains cooktops and ranges</b>  <p style="text-align: center;">1,2</p>	<b>E-17.02 Repairs cooktops and ranges</b>  <p style="text-align: center;">2</p>	<b>E-17.03 Installs cooktops and ranges</b>  <p style="text-align: center;">2</p>		
<b>Task E-18</b> <b>Services refrigerators and ice makers</b>	<b>E-18.01 Maintains refrigerators and ice makers</b>  <p style="text-align: center;">1,2,3</p>	<b>E-18.02 Repairs refrigerators and ice makers</b>  <p style="text-align: center;">2,3</p>	<b>E-18.03 Installs refrigerators and ice makers</b>  <p style="text-align: center;">2,3</p>		
<b>Task E-19</b> <b>Services air conditioners and heat pumps</b>	<b>E-19.01 Maintains air conditioners and heat pumps</b>  <p style="text-align: center;">1,3</p>	<b>E-19.02 Repairs air conditioners and heat pumps</b>  <p style="text-align: center;">3</p>	<b>E-19.03 Installs air conditioners and heat pumps</b>  <p style="text-align: center;">3</p>		

<b>Task E-20</b> Services consumer products	<b>E-20.01 Replaces consumer products</b>  1,3	<b>E-20.02 Installs consumer products</b>  1,3
--	--	--

## F – Interior and exterior components

**12%**

<b>Task F-21</b> Diagnoses interior and exterior components	<b>F-21.01 Diagnoses interior components</b>  2	<b>F-21.02 Diagnoses exterior components</b>  2	
<b>Task F-22</b> Services interior components	<b>F-22.01 Maintains interior components</b>  2	<b>F-22.02 Repairs interior components</b>  2	<b>F-22.03 Installs interior components</b>  2
<b>Task F-23</b> Services exterior components	<b>F-23.01 Maintains exterior components</b>  2	<b>F-23.02 Repairs exterior components</b>  2	<b>F-23.03 Installs exterior components</b>  2

## G – Frames and mechanical components

**10%**

<b>Task G-24</b> Diagnoses frames and mechanical components	<b>G-24.01 Diagnoses frames</b>  1,3	<b>G-24.02 Diagnoses running gear</b>  1,3	<b>G-24.03 Diagnoses levelling systems</b>  1,3	<b>G-24.04 Diagnoses slide-out systems</b>  1,3	<b>G-24.05 Diagnoses lifting systems</b>  1,3
<b>Task G-25</b> Services frames	<b>G-25.01 Maintains frames</b>  1	<b>G-25.02 Repairs frames</b>  3			

<b>Task G-26</b> Services running gear	<b>G-26.01 Maintains running gear</b>  1	<b>G-26.02 Repairs running gear</b>  1	
<b>Task G-27</b> Services levelling systems	<b>G-27.01 Maintains levelling systems</b>  1	<b>G-27.02 Repairs levelling systems</b>  3	<b>G-27.03 Installs levelling systems</b>  3
<b>Task G-28</b> Services slide-out systems	<b>G-28.01 Maintains slide-out systems</b>  1	<b>G-28.02 Repairs slide-out systems</b>  3	
<b>Task G-29</b> Services lifting systems	<b>G-29.01 Maintains lifting systems</b>  1	<b>G-29.02 Repairs lifting systems</b>  3	

## H – Towing systems

**12%**

<b>Task H-30</b> Diagnoses towing systems	<b>H-30.01 Diagnoses tow vehicle systems</b>  2	<b>H-30.02 Diagnoses towed vehicle systems</b>  3	
<b>Task H-31</b> Services tow vehicle systems	<b>H-31.01 Maintains tow vehicle systems</b>  1	<b>H-31.02 Repairs tow vehicle systems</b>  2,3	<b>F-31.03 Installs tow vehicle systems</b>  2,3
<b>Task H-32</b> Services towed vehicle systems	<b>H-32.01 Maintains towed vehicle systems</b>  1	<b>H-32.02 Repairs towed vehicle systems</b>  3	<b>F-32.03 Installs towed vehicle systems</b>  3

**The Recreation Vehicle Service Technician National Occupational Analysis (NOA), describing the “full scope” of the trade, can be found at [www.red-seal.ca](http://www.red-seal.ca).**

**For more detailed information on course content, please refer to the Recreation Vehicle Service Technician Guide to Course Content at [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca).**

