



Recreation Vehicle Service Technician Guide to Course Content

2025



Online: www.saskapprenticeship.ca

Recognition:

To promote transparency and consistency, this document has been adapted from the 2012 Recreation Vehicle Service Technician National Occupational Analysis (Employment and Social Development Canada).

A complete version of the Occupational Analysis can be found at www.red-seal.ca

STRUCTURE OF THE **GUIDE TO COURSE** **CONTENT**

To facilitate understanding of the occupation, this on-the-job training guide contains the following sections:

Task Matrix: a chart which outlines graphically the major work activities, tasks and sub-tasks of this standard detailing the essential skills and the level of training where the content is covered.

Major Work Activity (MWA): the largest division within the standard that is comprised of a distinct set of trade activities.

Task: distinct actions that describe the activities within a major work activity.

Sub-task: distinct actions that describe the activities within a task.

Technical Training Course Content for the Recreation Vehicle Service Technician trade: a chart which outlines the model for Alberta's technical training sequencing.

TRAINING REQUIREMENTS FOR THE RECREATION VEHICLE SERVICE TECHNICIAN TRADE

To graduate from each level of the apprenticeship program, an apprentice must successfully complete the required technical training and compile enough on-the-job experience to total at least 1600 hours each year. Total trade time required is 4800 hours and at least 3 years in the trade.

There are three levels of technical training delivered by the Southern Alberta Institute of Technology (SAIT) Polytechnic in Calgary Alberta.

Level One:	8 weeks
Level Two:	8 weeks
Level Three:	8 weeks

The information contained in this guide to course content details the technical training delivered for each level of apprenticeship. An apprentice spends approximately 15% of their apprenticeship term in a technical training institute learning the technical and theoretical aspects of the trade. The hours and percentages of technical and practical training may vary according to class needs and progress.

The content of the technical training components is subject to change without notice.

Entrance Requirements for Apprenticeship Training

Your grade twelve transcripts (with no modified classes) or GED 12 is your guarantee that you meet the educational entrance requirements for apprenticeship in Saskatchewan. In fact, employers prefer and recommend apprentices who have completed high school. This ensures the individual has all of the necessary skills required to successfully complete the apprenticeship program and receive journey person certification.

Individuals with “modified” or “general” classes in math or science do not meet our entry requirements. These individuals are required to take an entrance assessment prescribed by the SATCC.

English is the language of instruction in all apprenticeship programs and is the common language for business in Saskatchewan. Before admission, all apprentices and/or “upgraders” must be able to understand and communicate in the English language. Applicants whose first language is not English must have a minimum Canadian Language Benchmark Assessment of six (CLB6).

Note: A CLB assessment is valid for a one-year period from date of issue.

Designated Trade Name	Math Credit at the Indicated Grade Level ^❶	Science Credit at Grade Level
Recreation Vehicle Service Technician	Grade 10	Grade 10
<p>❶ - (One of the following) WA – Workplace and Apprenticeship; or F – Foundations; or P – Pre-calculus, or a Math at the indicated grade level (Modified and General Math credits are not acceptable.).</p> <p>*Applicants who have graduated in advance of 2015-2016, or who do not have access to the revised Science curricula will require a Science at the minimum grade level indicated by trade.</p> <p>For information about high school curriculum, including Math and Science course names, please see: http://www.curriculum.gov.sk.ca/</p> <p>Individuals not meeting the entrance requirements will be subject to an assessment and any required training.</p>		

RECREATION VEHICLE SERVICE TECHNICIAN

TASK MATRIX CHART

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%

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

B – Plumbing Systems

11%

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

C – Electrical Systems

18%

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

D – Liquefied Petroleum (LP) Gas Systems

16%

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

E – Appliances and Consumer Products

17%

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

E-15 Installs appliances and consumer products

E-15.01 Installs appliances and components

2,3

E-15.02 Installs consumer products and components

1,2,3

F – Interior and Exterior Components

10%

F-16 Diagnoses interior and exterior components

F-16.01 Diagnoses interior components

1,2,3

F-16.02 Diagnoses exterior components

1,2

F-17 Services interior components

F-17.01 Maintains interior components

1,2,3

F-17.02 Repairs interior components

1,2,3

F-17.03 Installs interior components

1,2,3

F-18 Services exterior components

F-18.01 Maintains exterior components

1,2

F-18.02 Repairs exterior components

1,2

F-18.03 Installs exterior components

1,2

G – Chassis and Mechanical Components

13%

G-19 Maintains chassis and mechanical components

G-19.01 Maintains frames

1,2,3

G-19.02 Maintains running gear

1,3

G-19.03 Maintains levelling systems

1,3

G-19.04 Maintains slide-out and lifting systems

2,3

G-19.05 Maintains generators

2,3

G-20 Diagnoses chassis and mechanical components

G-20.01 Diagnoses frames

1,2

G-20.02 Diagnoses running gear

1,3

G-20.03 Diagnoses leveling systems

1,3

G-20.04 Diagnoses slide-out and lifting systems

1,2,3

G-20.05 Diagnoses generators

2,3

G-21 Repairs chassis and mechanical systems	G-21.01 Repairs frames and components (Not Common Core) 1,2	G-21.02 Repairs running gear 1	G-21.03 Repairs leveling systems 3	G-21.04 Repairs slide-out and lifting systems 2,3	G-21.05 Repairs generators 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

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.

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

Northern and Southern Alberta Institute of Technology (NAIT, SAIT) Polytechnic Level Two	Hours
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

Northern and Southern Alberta Institute of Technology (NAIT, SAIT) Polytechnic Level Three	Hours
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 CONTENT

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.

Level One	8 weeks	240 hours
Section One- Standard Workplace Safety, Industry Overview, Regulations and Administration		38 hours total
Safety Legislation, Regulations and Industry Policy in the Trades		4 hours
<ul style="list-style-type: none"> • Demonstrate the application of the Occupational Health and Safety Act, Regulation and Code • Describe the employer's and employee's role with Occupational Health and Safety (OH&S) regulations, Worksite Hazardous Materials Information Systems (WHMIS), fire regulations, Workers Compensation Board regulations and related advisory bodies and agencies • Describe industry practices for hazard assessment and control procedures • Describe the responsibilities of worker and employers to apply emergency procedures • Describe tradesperson attitudes with respect to housekeeping, personal protective equipment and emergency procedures • Describe the roles and responsibilities of employers and employees with the selection and use of personal protective equipment (PPE) • Maintain required PPE for tasks • Use required PPE for tasks 		
NOA topics covered in this section of training:		
Task 1 Performs safety-related activities		
A-1.01 Uses personal protective equipment (PPE) and safety equipment		
A-1.02 Maintains safe work environment		
Climbing, Lifting, Rigging and Hoisting		3 hours
<ul style="list-style-type: none"> • Describe manual lifting procedures • Describe rigging hardware and associated safety factors • Select equipment for rigging loads • Describe hoisting and load moving procedures • Maintain personal protective equipment (PPE) for climbing, lifting and load moving equipment • Use PPE for climbing, lifting and load moving equipment 		
NOA topics covered in this section of training:		
Task 2 Uses and maintains tools and equipment		
A-2.02 Uses lifting, moving and access equipment		
Hazardous Materials and Fire Protection		3 hours
<ul style="list-style-type: none"> • Describe roles, responsibilities, features and practices related to the Workplace Hazardous Materials Information System (WHMIS) program 		

- Describe three key elements of WHMIS
- Describe handling, storing and transporting procedures for hazardous material
- Describe venting procedures when working with hazardous materials
- Describe hazards, classes, procedures and equipment related to fire protection

NOA topics covered in this section of training:

Task 1 Performs safety-related activities

A-1.01 Uses personal protective equipment (PPE) and safety equipment

A-1.02 Maintains safe work environment

Apprenticeship Orientation

2 hours

- Describe the contractual responsibilities of the apprentice, employer and Apprenticeship and Industry Training
- Describe the purpose of the apprentice record book
- Describe the procedure for changing employers during an active apprenticeship
- Describe the purpose of the course outline
- Describe the procedure for progressing through an apprenticeship

NOA topics covered in this section of training:

This section of training exceeds NOA scope of work in Level One and exceeds the minimum sequencing as set out in the Recreation Vehicle Service Technician NOA. Its purpose is to assist in the understanding of an apprentice the steps to earn journey person certification.

Tools and Equipment

4 hours

- Describe the types and application of tools and equipment
- Describe the procedures for maintaining tools and equipment
- Maintain tools and equipment
- Use tools and equipment

NOA topics covered in this section of training:

Task 2 Uses and maintains tools and equipment

A-2.01 Maintains tools and equipment

Cleaning Procedures

2 hours

- Describe methods and products used for spot cleaning recreation vehicles
- Describe the hazards associated with cleaning products and procedures

NOA topics covered in this section of training:

Task 1 Performs safety-related activities

A-1.02 Maintains safe work environment

Vehicle Identification Number (VIN) Plates and Labels

2 hours

- Describe the types and purpose of labels applicable to recreation vehicles
- Interpret information on VIN plates and labels

NOA topics covered in this section of training:

A-3 Performs common work practices and procedures

A-3.03 Performs pre-delivery inspections (PDI)

Cutting and Heating

10 hours

- Describe cutting and heating operations permitted within the scope of this trade
- Describe the characteristics and handling of cutting and heating gases
- Describe the components of cutting and heating equipment
- Perform a leak check on cutting and heating equipment
- Describe the procedure for adjusting cutting and heating equipment
- Demonstrate the procedure for storing and maintaining cutting and heating equipment
- Perform cutting and heating operations

NOA topics covered in this section of training:

Task 2 Uses and maintains tools and equipment

A-2.01 Maintains tools and equipment

Pre-Delivery Inspection (PDI)

6 hours

- Describe the purpose of a PDI
- Describe PDI procedures
- Describe the purpose of PDI documentation
- Describe PDI tasks specific to recreation vehicle designs
- Perform a PDI

NOA topics covered in this section of training:

Task 3 Performs common work practices and procedures

A-3.03 Performs pre-delivery inspections (PDI)

Motorhome Controls

2 hours

- Describe the operation of motorhome control systems
- Describe the purpose of motorhome safety equipment
- Describe codes, regulations and liabilities relating to motorhomes
- Describe diesel engine start-up procedures
- Describe the operation of air brake systems

NOA topics covered in this section of training:

Task 20 Diagnoses chassis and mechanical components

G-20.01 Diagnoses frames

G-20.02 Diagnoses running gear

G-20.03 Diagnoses levelling systems

G-20.04 Diagnoses slide-out and lifting systems

Task 21 Repairs chassis and mechanical components

G-21.04 Repairs slide-out and lifting systems

Section Two- Plumbing

24 hours total

Potable Water Systems

9 hours

- Describe the components and operation of potable water systems
- Describe the procedure for installing and servicing potable water systems
- Identify codes for potable water systems
- Service potable water systems

NOA topics covered in this section of training:

Task 4 Diagnoses plumbing systems

B-4.01 Diagnoses potable water systems

B-4.02 Diagnoses waste water systems

Task 5 Services potable water systems

B-5.01 Maintains potable water systems

B-5.02 Repairs potable water systems

B-5.03 Installs potable water system

Waste Water Systems

9 hours

- Describe the components and operation of waste water systems
- Describe the procedure for installing and servicing waste water systems
- Identify codes for waste water systems
- Service waste water systems

NOA topics covered in this section of training:

Task 6 Services waste water systems

B-6.01 Maintains waste water systems

B-6.02 Repairs waste water systems

B-6.03 Installs waste water system components

Winterizing and De-Winterizing

2 hours

- Describe the types and applications of plumbing antifreeze
- Describe winterizing and de-winterizing procedures

NOA topics covered in this section of training:

Task 5 Services potable water systems

B-5.01 Maintains potable water systems

B-5.02 Repairs potable water systems

B-5.03 Installs potable water system

Task 6 Services waste water systems

B-6.01 Maintains waste water systems

Service Monitoring Systems

4 hours

- Describe the components, principles of operation and owner procedures for monitoring systems
- Describe servicing of monitor panels and sensors

NOA topics covered in this section of training:

Task 8 Services AC electrical system

C-8.01 Maintains AC electrical and power supply systems

Section Three- Liquefied Petroleum Gas (LP) Systems

44 hours total

Propane Systems

44 hours

- Describe the properties of propane
- Describe safety procedures for working with propane
- Describe the types and applications of propane storage vessels

- Describe the requirements for inspecting, recertifying and filling propane storage vessels
- Describe the purpose of propane system components
- Describe the operation of propane system components
- Describe the operation of leak detectors
- Identify codes for propane systems
- Perform a leak and pressure test
- Perform operations to make connections in propane systems
- Adjust a propane regulator

NOA topics covered in this section of training:

Task 3 Performs common work practices and procedures

A-3.01 Uses blueprints, drawings, schematics and sketches

Task 10 Diagnoses LP gas systems

D-10.01 Diagnoses LP gas supply system (high pressure)

D-10.02 Diagnoses LP gas distribution system (low pressure)

Task 11 Services LP gas systems

D-11.01 Maintains LP gas supply systems

D-11.02 Repairs LP gas supply systems and components

D-11.03 Installs LP gas supply systems and components

Section Four- Direct Current (DC) Electrical Systems

48 hours total

DC electrical systems

33 hours

- Describe electrical principles
- Describe the function and operation of dc circuits and circuit components
- Describe the use of schematics in servicing dc electrical systems
- Construct dc electrical circuits
- Identify codes for dc electrical systems
- Service DC components and circuits

NOA topics covered in this section of training:

Task 7 Diagnoses electrical systems

C-7.02 Diagnoses DC electrical and power supply systems

Task 9 Services DC electrical system

C-9.01 Maintains DC electrical and power supply systems

C-9.02 Repairs DC power supply and distribution systems

C-9.03 Installs DC power supply and distribution system components

Batteries

15 hours

- Identify the types and application of batteries
- Describe the principles of battery operation
- Describe the procedure for storing and installing batteries
- Describe the procedure for testing, recharging and boosting batteries
- Identify the types of battery disconnect devices and systems

NOA topics covered in this section of training:

Task 9 Services DC electrical system

C-9.01 Maintains DC electrical and power supply systems

Section Five- Appliances and Accessories

44 hours total

Appliances Operation and Replacement

12 hours

- Describe the general operation of RV appliances
- Describe the precautions and procedures for removing and installing RV appliances

NOA topics covered in this section of training:

Task 12 Maintains appliances

- E-12.01 Maintains water heaters and components
- E-12.02 Maintains furnaces and components
- E-12.03 Maintains ranges and ovens
- E-12.04 Maintains refrigerators and ice makers
- E-12.05 Maintains air conditioners and heat pump systems

Interior Accessories and Safety Components

12 hours

- Describe the purpose of interior accessories and safety components
- Describe the operation of interior accessories and safety components
- Describe the procedure for installing and servicing interior accessories and safety components

NOA topics covered in this section of training:

Task 16 Diagnoses interior and exterior components

- F-16.01 Diagnoses interior components

Task 17 Services interior components

- F-17.01 Maintains interior components
- F-17.02 Repairs interior components
- F-17.03 Installs interior components

Exterior Accessories

20 hours

- Describe the procedure for installing and servicing awnings
- Describe the procedure for installing and servicing screen rooms
- Describe the procedure for installing aftermarket/optional exterior accessories
- Describe the procedure for installing and servicing back-up alarms and monitoring devices
- Describe the procedure for installing and servicing steps

NOA topics covered in this section of training:

E-14 Repairs appliances and consumer products

- E-14.06 Replaces consumer products

E-15 Installs appliances and consumer products

- E-15.02 Installs consumer products and components

E-16 Diagnoses interior and exterior components

- F-16.02 Diagnoses exterior components

F-18 Services exterior components

- F-18.01 Maintains exterior components
- F-18.02 Repairs exterior components
- F-18.03 Installs exterior components

Section Six- Mechanical and Towing Systems

42 hours total

Tow Vehicle

6 hours

- Describe the requirements and procedure for installing wiring trailer connections on a tow vehicle
- Describe the operation, application and installation of charging system isolators and relays

NOA topics covered in this section of training:

Task 24 Services towing systems

H-24.01 Maintains tow vehicle systems

H-24.02 Maintains towed vehicle systems

Hitch Systems

12 hours

- Describe the types and application of hitch and tow systems
- Describe the procedure for installing and adjusting hitch and tow systems
- Describe the types and application of sway control devices
- Describe the purpose and requirements for safety chains
- Describe methods, regulations and applications for dinghy towing

NOA topics covered in this section of training:

Task 24 Services towing systems

H-24.01 Maintains tow vehicle systems

H-24.02 Maintains towed vehicle systems

Brake Systems

6 hours

- Describe the components and operation of brake systems
- Describe the procedure for installing a tow vehicle brake control system
- Service brake systems and components

NOA topics covered in this section of training:

Task 19 Maintains chassis and mechanical components

G-19.01 Maintains frames

G-20 Diagnoses chassis and mechanical components

G-20.02 Diagnoses running gear

G-21 Repairs chassis and mechanical systems

G-21.02 Repairs running gear

Undercarriage

12 hours

- Describe the purpose of undercarriage components
- Describe the construction of trailer frames
- Describe axle types, suspension systems and weight ratings
- Describe the procedure for aligning an axle
- Describe wheel and tire types and ratings
- Describe tire wear patterns and causes
- Describe types of landing gear and trailer tongue jacks
- Describe the procedure for servicing landing gear and trailer tongue jacks
- Perform wheel and tire balance
- Service wheel bearings and seals

NOA topics covered in this section of training:

Task 19 Maintains chassis and mechanical components

G-19.01 Maintains frames

Task 21 Repairs chassis and mechanical systems

G-21.01 Repairs frames and components (NOT COMMON CORE)

Level Two	8 weeks	240 hours
Section One- Standard Practices and Procedures		24 hours total
Work Orders		4 hours
<ul style="list-style-type: none"> Describe purpose and types of work orders Describe air supply systems Describe procedure for documenting parts, labour and shop supplies 		
NOA topics covered in this section of training:		
Task 3 Performs common work practices and procedures		
A-3.02 Identifies outstanding recalls and service bulletins		
Estimating		10 hours
<ul style="list-style-type: none"> Describe the purpose and types of estimates Describe estimating policies and procedures Perform an estimate 		
NOA topics covered in this section of training:		
Task 3 Performs common work practices and procedures		
A-3.01 Uses blueprints, drawings , schematics and sketches		
A-3.02 Identifies outstanding recalls and service bulletins		
Task 14 Repairs appliances and consumer products		
E-14.06 Replaces consumer products		
Task 15 Installs appliances and consumer products		
E-15.02 Installs consumer products and components		
Warranty and Recall Procedures		2 hours
<ul style="list-style-type: none"> Describe warranty policies and procedures Describe the procedure for processing recalls and service bulletins 		
NOA topics covered in this section of training:		
Task 3 Performs common work practices and procedures		
A-3.02 Identifies outstanding recalls and service bulletins		
Parts Catalogues and Related References		4 hours
<ul style="list-style-type: none"> Describe warranty policies and procedures Describe the procedure for processing recalls and service bulletins 		
NOA topics covered in this section of training:		
Task 3 Performs common work practices and procedures		
A-3.02 Identifies outstanding recalls and service bulletins		
Customer Relations		4 hours
<ul style="list-style-type: none"> Describe how to provide courtesy to a customer and project a professional image Identify how to address customer needs and expectations Describe expectations for professional conduct during customer communications 		

NOA topics covered in this section of training:

Task 14 Repairs appliances and consumer products

E-14.06 Replaces consumer products

Section Two- Alternating Current (AC) Electrical Systems

54 hours total

AC Electrical System Service

24 hours

- Describe the difference between ac and dc circuits
- Describe safety precautions used when servicing ac electrical systems
- Describe the purpose and operation of ac circuit components
- Describe the purpose and operation of Energy Management Systems
- Describe codes for ac electrical systems

NOA topics covered in this section of training:

Task 7 Diagnoses electrical systems

C-7.01 Diagnoses AC electrical and power supply systems

Task 8 Services AC electrical system

C-8.01 Maintains AC electrical and power supply systems

C-8.02 Repairs AC power supply and distribution system

C-8.03 Installs AC power supply and distribution system components

Generators

20 hours

- Describe safety hazards associated with generators
- Calculate output requirements for generators
- Describe the procedure for installing generators
- Describe codes for generator systems
- Describe the procedure for servicing generators
- Test generator output

NOA topics covered in this section of training:

Task 19 Maintains chassis and mechanical components

G-19.05 Maintains generators

Task 20 Diagnoses chassis and mechanical components

G-20.05 Diagnoses generators

Task 21 Repairs chassis and mechanical systems

G-21.05 Repairs generators

Task 22 Installs chassis and mechanical components

G-22.02 Installs generators

Converters and Charging Systems

10 hours

- Describe types of converters and charging systems
- Describe the operation of converters and charging systems
- Describe the operation of power centers
- Describe the procedure for servicing converters, power centers and charging systems
- Calculate convertor requirements

NOA topics covered in this section of training:

Task 7 Diagnoses electrical systems

C-7.01 Diagnoses AC electrical and power supply systems

C-7.02 Diagnoses DC electrical and power supply systems

Task 8 Services AC electrical system

C-8.01 Maintains AC electrical and power supply systems

C-8.02 Repairs AC power supply and distribution system

C-8.03 Installs AC power supply and distribution system components

Task 9 Services DC electrical system

C-9.01 Maintains DC electrical and power supply systems

C-9.02 Repairs DC power supply and distribution systems

C-9.03 Installs DC power supply and distribution system components

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

NOA topics covered in this section of training:

Task 14 Repairs appliances and consumer products

E-14.06 Replaces consumer products

Task 15 Installs appliances and consumer products

E-15.01 Installs appliances and components

E-15.02 Installs consumer products and components

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

NOA topics covered in this section of training:

Task 10 Diagnoses LP gas systems

D-10.01 Diagnoses LP gas supply system (high pressure)

D-10.02 Diagnoses LP gas distribution system (low pressure)

Task 11 Services LP gas systems

D-11.01 Maintains LP gas supply systems

D-11.02 Repairs LP gas supply systems and components

D-11.03 Installs LP gas supply systems and components

Task 12 Maintains appliances

E-12.03 Maintains ranges and ovens

Task 13 Diagnoses appliances

E-13.03 Diagnoses ranges and ovens

Task 14 Repairs appliances and consumer products

E-14.03 Repairs ranges and ovens

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

NOA topics covered in this section of training:**Task 12 Maintains appliances**

E-12.01 Maintains water heaters and components

Task 13 Diagnoses appliances

E-13.01 Diagnoses water heaters

Task 14 Repairs appliances and consumer products

E-14.01 Repairs water heaters

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

NOA topics covered in this section of training:**Task 12 Maintains appliances**

E-12.02 Maintains furnaces and components

Task 13 Diagnoses appliances

E-13.02 Diagnoses furnaces

Task 14 Repairs appliances and consumer products

E-14.02 Repairs furnaces

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

NOA topics covered in this section of training:

Task 16 Diagnoses interior and exterior components

F-16.01 Diagnoses interior components

F-16.02 Diagnoses exterior components

Task 17 Services interior components

F-17.01 Maintains interior components

F-17.02 Repairs interior components

F-17.03 Installs interior components

Task 18 Services exterior components

F-18.01 Maintains exterior components

F-18.02 Repairs exterior components

F-18.03 Installs 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

NOA topics covered in this section of training:

F-18.01 Maintains exterior components

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

NOA topics covered in this section of training:

Task 23 Diagnoses towing systems

H-23.01 Diagnoses tow vehicle systems

H-23.02 Diagnoses towed vehicle systems

Task 24 Services towing systems

H-24.01 Maintains tow vehicle systems

H-24.02 Maintains towed vehicle systems

H-24.03 Installs tow vehicle systems and components

H-24.04 Installs towed vehicle systems and components

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

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- Describe the procedure for installing suspension aids
 - Describe the procedure for adjusting suspension aids
 - Describe the procedure for servicing suspension aids

NOA topics covered in this section of training:

Task 19 Maintains chassis and mechanical components

G-19.01 Maintains frames

Task 20 Diagnoses chassis and mechanical components

G-20.01 Diagnoses frames

Task 21 Repairs chassis and mechanical systems

G-21.01 Repairs frames and components (NOT COMMON CORE)

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

NOA topics covered in this section of training:

Task 19 Maintains chassis and mechanical components

G-19.04 Maintains slide-out and lifting systems

Task 20 Diagnoses chassis and mechanical components

G-20.04 Diagnoses slide-out and lifting systems

Task 21 Repairs chassis and mechanical systems

G-21.04 Repairs slide-out and lifting systems

Level Three

8 weeks

240 hours

Section One- Inverter and Solar Panels

30 hours total

Solar Systems

15 hours

- Describe the purpose of solar charging system components
- Describe the operation and application of solar charging systems
- Describe the procedure for installing solar charging systems
- Size a solar charging and battery system to meet customer requirements
- Describe the procedure for expanding a solar charging system to match higher requirements
- Describe the procedure for servicing a solar charging system

NOA topics covered in this section of training:

Task 7 Diagnoses electrical systems

C-7.01 Diagnoses AC electrical and power supply systems

Task 8 Services AC electrical system

C-8.01 Maintains AC electrical and power supply systems

C-8.02 Repairs AC power supply and distribution system

C-8.03 Installs AC power supply and distribution system components

Inverter Systems

15 hours

- Describe the purpose and operation of an inverter system
- Describe types of inverters and remote control panels
- Describe the procedure for installing an inverter system
- Calculate power draws, battery requirements, cable sizes and load protection devices
- Describe the procedure for servicing inverter systems

NOA topics covered in this section of training:

Task 7 Diagnoses electrical systems

C-7.01 Diagnoses AC electrical and power supply systems

C-7.02 Diagnoses DC electrical and power supply systems

Task 8 Services AC electrical system

C-8.01 Maintains AC electrical and power supply systems

C-8.02 Repairs AC power supply and distribution system

C-8.03 Installs AC power supply and distribution system components

Task 9 Services DC electrical system

C-9.01 Maintains DC electrical and power supply systems

C-9.02 Repairs DC power supply and distribution systems

C-9.03 Installs DC power supply and distribution system components

Section Two-Appliances

80 hours total

Air Conditioning and Heat Pumps

20 hours

- Describe the types of air conditioners and heat pumps
- Describe the purpose of air conditioner and heat pump components
- Describe types and operation of thermostats and climate controls
- Describe the procedure for servicing air conditioners and heat pump systems
- Describe the procedure for disposing, reclaiming and recycling refrigerants
- Describe codes for air conditioners and heat pumps

NOA topics covered in this section of training:

Task 12 Maintains appliances

E-12.05 Maintains air conditioners and heat pump systems

Task 13 Diagnoses appliances

E-13.05 Diagnoses air conditioners and heat pumps

Task 14 Repairs appliances and consumer products

E-14.05 Repairs air conditioners and heat pumps

Refrigerators

35 hours

- Describe the types and operation of refrigerators
- Describe the purpose of refrigerator components
- Describe the procedure for servicing refrigerators
- Describe codes related to refrigerators
- Service refrigerators

NOA topics covered in this section of training:

Task 12 Maintains appliances

E-12.04 Maintains refrigerators and ice makers

Task 13 Diagnoses appliances

E-13.04 Diagnoses refrigerators and ice makers

E-14.04 Repairs refrigerators and ice makers

Appliance Products

10 hours

- Describe types of appliance and consumer products
- Describe the procedure for servicing appliances and consumer products
- Describe the procedure for installing appliance and consumer products

NOA topics covered in this section of training:

Task 14 Repairs appliances and consumer products

E-14.06 Replaces consumer products

Task 15 Installs appliances and consumer products

E-15.01 Installs appliances and components

E-15.02 Installs consumer products and components

Electronic Control Systems

15 hours

- Describe the operation of electronic components
- Describe precautions required for handling electronics
- Service the wiring connection to an electronic component
- Describe common faults in electronic components
- Test electronic components

NOA topics covered in this section of training:

Task 7 Diagnoses electrical systems

C-7.01 Diagnoses AC electrical and power supply systems

Task 8 Services AC electrical system

C-8.01 Maintains AC electrical and power supply systems

C-8.02 Repairs AC power supply and distribution system

C-8.03 Installs AC power supply and distribution system 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

NOA topics covered in this section of training:

This section of training exceeds NOA scope of work in Level Three and exceeds the minimum sequencing as set out in the Recreation Vehicle Service Technician NOA. Its purpose is to assist in the understanding of an apprentice the steps to earn journey person certification with understanding of the Red Seal Program.

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

NOA topics covered in this section of training:

Task 19 Maintains chassis and mechanical components

G-19.03 Maintains levelling systems

G-19.04 Maintains slide-out and lifting systems

Task 20 Diagnoses chassis and mechanical components

G-20.03 Diagnoses levelling systems

G-20.04 Diagnoses slide-out and lifting systems

Task 21 Repairs chassis and mechanical systems

G-21.03 Repairs levelling systems

G-21.04 Repairs slide-out and lifting systems

Task 22 Installs chassis and mechanical components

G-22.01 Installs levelling systems and components

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

NOA topics covered in this section of training:**Task 19 Maintains chassis and mechanical components**

G-19.04 Maintains slide-out and lifting systems

Task 20 Diagnoses chassis and mechanical components

G-20.04 Diagnoses slide-out and lifting systems

Task 21 Repairs chassis and mechanical systems

G-21.04 Repairs slide-out and lifting systems

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

NOA topics covered in this section of training:**Task 19 Maintains chassis and mechanical components**

G-19.03 Maintains levelling systems

Task 20 Diagnoses chassis and mechanical components

G-20.03 Diagnoses levelling systems

Task 21 Repairs chassis and mechanical systems

G-21.03 Repairs levelling systems

Task 22 Installs chassis and mechanical components

G-22.01 Installs levelling systems and components

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

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- Describe the procedure for handling fuel
- Describe the procedure for dispensing fuel
- Identify codes for auxiliary fuel systems

NOA topics covered in this section of training:

Task 20 Diagnoses chassis and mechanical components

G-20.05 Diagnoses generators

Task 21 Repairs chassis and mechanical systems

G-21.05 Repairs generators

Task 22 Installs chassis and mechanical components

G-22.02 Installs generators

Specialty Haulers

10 hours

- Describe the purpose of specialty hauler components
- Describe the operation of specialty hauler components
- Describe the types of materials used in constructing specialty haulers
- Describe the design and ventilation requirements
- Describe codes and safety procedures relating to the servicing of specialty haulers

NOA topics covered in this section of training:

Task 23 Diagnoses towing systems

H-23.01 Diagnoses tow vehicle systems

H-23.02 Diagnoses towed vehicle systems

Task 24 Services towing systems

H-24.01 Maintains tow vehicle systems

H-24.02 Maintains towed vehicle systems

H-24.03 Installs tow vehicle systems and components

H-24.04 Installs towed vehicle systems and components

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

NOA topics covered in this section of training:

Task 2 Uses and maintains tools and equipment

A-2.01 Maintains tools and equipment

Workplace Coaching Skills

- Describe the process for coaching an apprentice

4 hours

NOA topics covered in this section of training:

This section of training exceeds NOA scope of work in Level Three and exceeds the minimum sequencing as set out in the Recreation Vehicle Service Technician NOA. Its purpose is to assist in the understanding of Alberta's Apprenticeship and Industry Training system.

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)

NOA topics covered in this section of training:

This section of training exceeds NOA scope of work in Level Three and exceeds the minimum sequencing as set out in the Recreation Vehicle Service Technician NOA. Its purpose is to assist in the understanding of Alberta's Apprenticeship and Industry Training system.

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

NOA topics covered in this section of training:

This section of training exceeds NOA scope of work in Level Three and exceeds the minimum sequencing as set out in the Recreation Vehicle Service Technician NOA. Its purpose is to assist in the understanding of an apprentice the steps to earn journey person certification with understanding of the Red Seal Program.