



# Automotive Service Technician Certificate

## PLAR Candidate Guide

Prior Learning Assessment and Recognition (PLAR)

### Copyright

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### Prior learning credit options at Saskatchewan Polytechnic

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See [Get Credit for What you Know](#) for important information about all options to get credit for prior learning at Sask Polytech, including PLAR, transfer credit, Canadian Armed Forces credit, and equivalency credit.

### How to navigate this document

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This document contains links to other document sections or webpages. To return to where you were from another section in this document, press the *ALT* key and *left arrow* key at the same time. To return to this webpage from another webpage, close the other webpage or click back on the browser tab for this document.

### Contents of this guide

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This guide contains the following specific PLAR information and tools for this program

- A. [PLAR fees](#)
- B. [PLAR eligibility and options](#)
- C. [Dates when PLAR assessment is available](#)
- D. [Special directions for this program](#)
- E. [PLAR contact person](#)
- F. [Self-rating course outlines](#)

## A. PLAR fees

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Fees for PLAR challenges are set to cover our costs for consultation, assessment, and related administrative tasks. PLAR fees are non-refundable and non-transferrable.

The PLAR fees policy is subject to change for each new academic year. Please see the **Cost** section on the [PLAR webpage](#) for current fee information.

## B. PLAR eligibility and options

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To be eligible for PLAR for courses in this program, you must first apply for admission and be accepted into the program. You must also consult with the [PLAR contact person](#) and be approved for PLAR assessment.

### Course prerequisites and corequisites

Some courses have one or more other courses that must be completed first (prerequisite) or at the same time (corequisite). See [course outlines](#) in this guide to identify any pre- or co-requisites for each course. Discuss with your [PLAR contact person](#) how to deal with courses with corequisites.

### Block assessment

Some programs may assess a cluster of courses together in one block, which may save you time and effort. Ask the [PLAR contact person](#) whether there are any block assessment options in this program.

## C. Dates when PLAR assessment is available

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PLAR assessment for this program is available from Sept 1 to June 15 in each academic year.

**All PLAR assessments must be completed by June 15 of each academic year.**

## D. Special directions for this program

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1. **Review** the [PLAR process and FAQs](#) and the information in this guide.
2. **Self-rate** your learning for each course using the [Course Outlines](#) in this guide.
3. **Consult** with the [PLAR contact person](#) for PLAR approval. Be prepared to provide your resume, course self-ratings (see [section F](#)), and a partially completed [PLAR application](#). If you are approved for PLAR, the contact person will sign your PLAR application and explain next steps.
4. Apply for admission to the program. See [directions](#) for applying.
5. **Register** for PLAR at [Registration/Enrolment Services](#) once you have signed approval on your [PLAR Application Form](#). The PLAR fee will be added to your student account.
6. **Finalize** an assessment plan with your assigned assessor.
7. **Complete** assessment before your PLAR registration expires.

## E. PLAR contact person

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Contact one of the Program Heads below to arrange a consultation **after** you have read this guide and [general PLAR information](#) and rated yourself for each course (see next section). Consultation may be by phone, online, or in person. Be prepared to provide your resume, course self-ratings, and a partially completed [PLAR application](#). If agreement is reached to go ahead with PLAR, the contact person will sign approval on your PLAR application and explain the next steps. Admission to the program is required before you can register for PLAR.

**Lorne Phillips, Program Head**  
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## F. Self-rating course outlines

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Clicking on a course code below opens a page where you can rate yourself on the knowledge and skills assessed for PLAR credit. For Arts & Sciences courses, clicking on the course code opens another PLAR guide. The [PLAR contact person](#) for this program will refer you to another person to discuss PLAR for courses delivered by Arts & Sciences or another program/department.

COURSE CODE	COURSE NAME	Delivered by another department/program
<a href="#">ATBD 100</a>	Body Components, Accessories and Trim	
<a href="#">BRAK 117</a>	Braking Systems 1 (Non-ABS)	
<a href="#">BRAK 118</a>	Braking Systems 2 (Non-ABS)	
<a href="#">BRAK 119</a>	Braking Systems 3 (ABS)	
<a href="#">COMM 127</a>	Fundamental Communication Skills	<a href="#">Arts &amp; Sciences</a>
<a href="#">DRTR 110</a>	Driveline Systems 1	
<a href="#">ELCT 106</a>	Electrical Systems 1	
<a href="#">ELCT 107</a>	Electrical Systems 2	
<a href="#">ELCT 108</a>	Starting, Charging, Lighting and Wipers	
<a href="#">ENGN 125</a>	Engine Systems 1	
<a href="#">ENGN 126</a>	Engine Systems 2	
<a href="#">ENGN 127</a>	Engine Systems 3	

<b>COURSE CODE</b>	<b>COURSE NAME</b>	<b>Delivered by another department/program</b>
<a href="#">FUEL 102</a>	Introduction to Fuel and Ignition Systems	
<a href="#">MAIN 108</a>	Vehicle Inspection, Apprenticeship and Mentoring	
<a href="#">MATH 169</a>	Trade Mathematics	<a href="#">Arts &amp; Sciences</a>
<a href="#">SAFE 103</a>	Automotive Shop Safety	
<a href="#">SHOP 109</a>	Automotive Shop Fundamentals	
<a href="#">STER 106</a>	Steering and Suspension 1	
<a href="#">STER 107</a>	Steering and Suspension 2	
<a href="#">TRNM 109</a>	Final Drive Assemblies	
<a href="#">TRNM 110</a>	Clutches and Transmissions Part 1	
<a href="#">TRNM 111</a>	Clutches and Transmissions Part 2	
<a href="#">INDG 100</a>	Introduction to Indigenous Studies	<a href="#">Arts &amp; Sciences</a>
<a href="#">WORK 157</a>	Automotive Service Technician Work Experience	

**ATBD 100 - Body Components, Accessories and Trim**

Your studies will help you develop skills in adjustment and replacement of vehicle body components, accessories and trim.

**Credit unit(s):** 2.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Describe adjustment of doors, lids, and moveable glass.			
2. Describe diagnosis and repair of body leaks and noises.			
3. Describe headlight adjustment and replacement.			
4. Demonstrate body adjustment procedures.			
5. Demonstrate moveable glass replacement.			

**BRAK 117 - Braking Systems 1 (Non-ABS)**

The course covers the operation, diagnosis, and repair of braking system hydraulic components.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** BRAK 118  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the operation, diagnosis, and repair procedures for brake system operation.			
2. Perform the master cylinder evaluation and replacement.			
3. Perform wheel cylinder and caliper evaluation and replacement.			
4. Perform the evaluation and replacement of brake valve and switches.			
5. Perform flushing and bleeding procedures of brake and ABS systems.			

**BRAK 118 - Braking Systems 2 (Non-ABS)**

Your studies will help you develop the skills to evaluate and repair drum brakes, disc brakes and park brake systems.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** BRAK 117  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Perform the evaluation and repair of brake drums and brake rotors.			
2. Perform park brake system repair.			
3. Perform power-assist brake systems repair.			
4. Replace brake shoes and pads.			
5. Diagnose brake system.			

### BRAK 119 - Braking Systems 3 (ABS)

You will gain an understanding of the operation, diagnosis and repair of anti-lock brake, traction control and stability control systems. You will examine the evaluation and repair of tire pressure monitor systems.

**Credit unit(s):** 2.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b>  <b>Competent:</b> I can apply this outcome without direction or supervision. <b>Learning:</b> I am still learning skills and knowledge to apply this outcome. <b>None:</b> I have no knowledge or experience related to this outcome.	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Describe the operation, diagnoses, and repair of antilock, traction and stability control systems.			
2. Perform the evaluation and repair of anti-lock brake, traction, and stability control systems.			



**COMM 127 - Fundamental Communication Skills**

You will use fundamental employability skills related to obtaining and keeping a job. You will apply skills to work effectively with others and produce job-related documents. You will identify employability and practical skills to prepare effective job search materials and discuss the effect of attitudes and behaviours on a successful job search.

**Credit unit(s):** 2.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Apply job-related interpersonal communication strategies.			
2. Examine effective digital communication.			
3. Prepare job-related written communication.			
4. Use job search skills.			

## DRTR 110 - Driveline Systems

You will learn operation, diagnosis and repair of wheels, tires, bearings, seals, driveshafts and axles. The course content includes the evaluation and repair of tire pressure monitor systems.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe operation, diagnosis and repair procedures for wheels and tires.			
2. Describe operation, diagnosis and repair of wheel bearings and seals.			
3. Repair wheels and tires.			
4. Service wheel bearings and seals.			
5. Describe diagnosis and repair of driveshafts and axles.			
6. Repair drive shafts and axles.			
7. Perform the evaluation and repair of tire pressure monitor systems.			

## ELCT 106 - Electrical Systems 1

You will learn the operation, diagnosis and repair electrical circuits and components.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** ELCT 107  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe types of electrical circuits.			
2. Construct electrical circuits.			
3. Use electrical test equipment.			
4. Describe battery operation, diagnosis, and repair.			
5. Describe schematics and flowcharts.			
6. Describe conductors and insulators.			
7. Diagnose solid state components.			

## ELCT 107 - Electrical Systems 2

Building on the skills developed in Electrical Systems 1 you will examine the operation, diagnosis and repair of computer control systems and batteries.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** ELCT 107  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the operation, diagnosis, and repair of computer control systems.			
2. Repair conductors and connectors.			
3. Construct electrical circuits.			
4. Use electrical test equipment.			
5. Diagnose batteries.			
6. Diagnose solid state components.			
7. Use schematics and flowcharts.			
8. Diagnose computer control systems.			

**ELCT 108 - Starting, Charging, Lighting and Wipers**

You will become familiar with the operation, diagnosis, and repair of starting, charging, lighting, and wiper systems.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Describe the operation, diagnoses, and repair of starting systems.			
2. Perform the evaluation and replacement of a starter.			
3. Describe the operation, diagnoses, and repair of charging systems.			
4. Perform the evaluation and replacement of a generator.			
5. Describe the operation, diagnoses, and repair of lighting systems.			
6. Describe the operation, diagnoses, and repair of wiper systems.			
7. Perform the evaluation and repair of lighting systems.			
8. Perform the evaluation and repair of wiper systems.			

## ENGN 125 - Engine Systems 1

You will gain an understanding of the types of engines and the operation, diagnosis, and repair of engine systems.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the operation of engine types.			
2. Describe the types and use of automotive engine measuring tools.			
3. Describe the operation, diagnosis, and repair of cooling systems.			
4. Describe the operation, diagnosis, and repair of the engine lubrication system.			
5. Describe the operation, diagnosis, and repair of induction systems.			
6. Describe the operation, diagnosis, and repair of exhaust systems.			
7. Describe engine component operation.			
8. Repair cooling system.			
9. Test lubrication system.			
10. Inspect induction system.			
11. Inspect exhaust system.			

**ENGN 126 - Engine Systems 2**

Your studies will help you develop skills in evaluating the operation, diagnosis, and repair of engine assemblies.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the operation, diagnosis, and construction of cylinder head assembly.			
2. Describe the operation, diagnosis, and construction of engine block assembly.			
3. Describe the engine assembly procedures.			
4. Describe the diagnosis and repair of the cylinder head.			
5. Describe the diagnosis and repair of the block assembly.			
6. Inspect the cylinder head assembly.			
7. Inspect engine block assembly.			
8. Assemble engine.			
9. Evaluate cylinder head assembly.			
10. Evaluate engine block assembly.			
11. Use precision measuring tools.			

### ENGN 127 - Engine Systems 3

The course focuses on the diagnosis, repair, and replacement of engine assemblies.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the diagnosis and repair of an engine.			
2. Describe engine replacement procedures.			
3. Diagnose engine.			
4. Replace engine.			
5. Repair cylinder head.			
6. Repair block assembly.			



## FUEL 102 - Introduction to Fuel and Ignition Systems

You will be introduced to the basic operation, diagnosis and repair of gasoline fuel injection and ignition systems.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Describe the basic operation, diagnosis, and repair of the fuel injection system.			
2. Describe the basic operation, diagnosis, and repair of the emission system.			
3. Describe maintenance of the fuel delivery system.			
4. Maintain fuel deliver systems.			
5. Describe operation, diagnosis, and repair of distributor type ignition systems.			
6. Describe operation, diagnosis, and repair of distributorless ignition systems.			
7. Use ignition system testing equipment.			

**MAIN 108 - Vehicle Inspection, Apprenticeship and Mentoring**

You will identify and perform periodic vehicle maintenance while following recommended maintenance schedules for vehicle fluids, steering, suspension, brakes, exhaust systems including the inspection of lights, tires, wiper/washers and leaks. You will discuss the apprenticeship and mentoring programs.

**Credit unit(s):** 2.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe vehicle maintenance schedules and procedures.			
2. Perform vehicle maintenance procedures.			
3. Describe apprenticeship and mentoring programs.			

**MATH 169 - Trade Mathematics**

You will learn mathematical concepts commonly used in your trade. After reviewing basic arithmetic and basic equations, you will solve various algebra problems as applied to your trade. You will perform Imperial and Metric conversions, and calculate the perimeter, area, and volume of many common shapes, as well as use Pythagorean theorem.

**Credit unit(s):** 2.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<p><b>Competent</b></p>	<p><b>Learning</b></p>	<p><b>None</b></p>
1. Use arithmetic to solve trade-related problems.			
2. Use measurement systems.			
3. Solve trade-related equations and formulas.			
4. Solve geometric problems.			

**SAFE 103 - Automotive Shop Safety**

The course focuses on shop safety precautions and procedures used in the automotive service trade.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Describe occupation related safety procedures.			
2. Demonstrate safe handling of refrigerants.			
3. Demonstrate restraint system safety precautions.			
4. Describe hybrid and electric vehicle safety procedures.			

**SHOP 109 - Automotive Shop Fundamentals**

You will become familiar with occupation related tools, equipment, and road test procedures. You will gain an understanding of trade related documents.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<p><b>Competent</b></p>	<p><b>Learning</b></p>	<p><b>None</b></p>
<p>1. Describe Occupation related tools and equipment.</p>			
<p>2. Describe road test procedures.</p>			
<p>3. Demonstrate knowledge of trade related documents.</p>			

**STER 106 - Steering and Suspension 1**

You will be introduced to the operation, diagnosis and repair of suspension and steering systems.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Describe the operation, diagnosis, and repair of suspension designs.			
2. Describe the operation, diagnosis, and repair of steering systems.			
3. Describe the operation, diagnosis, and repair of steering linkages.			
4. Perform the evaluation and repair of suspension systems.			
5. Perform the evaluation and repair on steering systems.			
6. Perform the evaluation and repair on steering linkages.			

**STER 107 - Steering and Suspension 2**

You will learn the operation, diagnosis and repair of steering gears and columns. Your studies will help you acquire knowledge and skills in wheel alignment principles and procedures.

**Credit unit(s):** 4.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<p><b>Competent</b></p>	<p><b>Learning</b></p>	<p><b>None</b></p>
1. Describe the operation, diagnosis, and repair of steering columns.			
2. Describe the operation, diagnoses, and repair of steering gears.			
3. Describe the principles of wheel alignment.			
4. Perform the evaluation and repair of steering columns.			
5. Perform wheel alignment procedures.			

**TRNM 109 - Final Drive Assemblies**

The course focuses on the operation, diagnosis, and repair of final drive assemblies.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the operation, diagnosis, and repair of differential assemblies.			
2. Perform the evaluation and repair of differential systems.			
3. Identify types of differential assemblies.			
4. Describe operation of locking/limited slip differentials.			



**TRNM 110 - Clutches and Transmissions Part 1**

You will examine the operation, diagnosis, and repair of clutch assemblies. The course also combines the removal and replacement of manual transmissions.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** TRNM 111  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe the operation, diagnosis, and repair of clutch systems.			
2. Identify clutch system components.			
3. Remove clutch assembly and flywheel.			
4. Repair clutch assembly.			
5. Repair clutch activating devices.			
6. Inspect clutch housing and components.			
7. Perform clutch maintenance procedures.			
8. Install clutch assembly and flywheel.			
9. Install manual and transmission and housing.			
10. Diagnose clutch operation.			
11. Describe transmission, transaxle, transfer case removal and installation procedures.			
12. Remove manual transmission.			
13. Install manual transmission.			

**TRNM 111 - Clutches and Transmissions Part 2**

Your studies will focus on the maintenance procedures for transmissions, transaxles, transfer case and differentials. You will develop skills in removal and installation of automatic transmissions.

**Credit unit(s):** 3.0  
**Prerequisites:** none  
**Corequisites:** TRNM 110  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	Competent	Learning	None
1. Describe maintenance procedure for transmission, transaxle, transfer case and differential.			
2. Perform maintenance procedures on differential assemblies, transfer case and automatic transmission.			
3. Remove automatic transmissions.			
4. Install automatic transmissions.			

**INDG 100 – Introduction to Indigenous Studies**

You will receive an introduction to the Indigenous cultural groups within Saskatchewan. You will learn about the colonization of Indigenous peoples by the Canadian state. Your studies will help you discuss current issues and explore possible solutions.

**Credit unit(s):** 1.0  
**Prerequisites:** none  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<p><b>Competent</b></p>	<p><b>Learning</b></p>	<p><b>None</b></p>
<p>1. Describe Indigenous nations of Saskatchewan.</p>			
<p>2. Explain how colonization has impacted Indigenous peoples.</p>			
<p>3. Discuss current issues and possible solutions.</p>			

**WORK 157 – Automotive Service Technician Work Experience**

You will become familiar with the industry as you spend two weeks in an automotive service shop. You will gain industry familiarity while practicing your employability, trade competency, interpersonal and safety skills. You will follow workplace policies and procedures.

**Credit unit(s):** 0.0  
**Prerequisites:** SAFE 103(concurrent), SHOP 109(concurrent)  
**Corequisites:** none  
**Equivalent course(s):** none

<p><b>Use a checkmark (✓) to rate yourself as follows for each learning outcome</b></p> <p><b>Competent:</b> I can apply this outcome without direction or supervision.  <b>Learning:</b> I am still learning skills and knowledge to apply this outcome.  <b>None:</b> I have no knowledge or experience related to this outcome.</p>	<b>Competent</b>	<b>Learning</b>	<b>None</b>
1. Demonstrate employability skills.			
2. Demonstrate trade competency skills.			
3. Demonstrate effective interpersonal skills.			
4. Demonstrate safe working practices.			
5. Follow workplace policies and procedures.			