Carpentry - Certificate

PLAR Candidate Guide

Prior Learning Assessment and Recognition (PLAR)

Prior learning credit options at Saskatchewan Polytechnic

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

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

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

A. PLAR fees

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

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

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

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

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.

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F. Self-rating course outlines

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
Semester 1		
BPRT 127	Construction Documents	
CNST 126	Site Layout	
CONC 122	Concrete	
EQPT 126	Tools	
FNDT 120	Foundations	
FRMG 126	Floor Framing	
FRMG 221	Wall Systems	
MATE 126	Building Materials	
MATH 127	Trade Math	Arts & Sciences

COURSE CODE	COURSE NAME	Delivered by another department/program
PROJ 122	Projects	
SFTY 129	Safety Awareness	
Semester 2		
BPRT 222	Construction Documents	
CNST 127	Transits	
EXFN 220	Exterior Finishes and Accessories	
EXFN 221	Exterior Windows and Doors	
FRMG 222	Roof Framing	
INFN 320	Interior Finishes	
INFN 321	Wall Cabinets	
INSL 220	Building Envelope	
JOBS 125	Essential Job Skills	Arts & Sciences
ROOF 220	Roof Coverings	
STRS 120	Wood Stairs	
WORK 125	Work Placement	

BPRT 127 - Construction Documents

You will learn how to identify and use basic construction drawings to determine the location, sizes, and types of materials required for residential buildings. You will also be able to interpret building codes and permits.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify types of views used in construction drawings.			
2. Use basic residential construction drawings.			
3. Interpret building codes and permits.			

CNST 126 - Site Layout

You will learn how to calculate and establish construction elevations using builder's levels. You will be able to describe the procedures for performing as well as establish building lines using hand tools. You will also learn how to transfer elevations using a laser level.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify types of builder's levels.			
2. Calculate elevations using a builder's level.			
3. Establish elevations with a builder's level.			
4. Describe the procedures for performing a site investigation.			
5. Layout a building with hand tools.			
6. Establish elevations with a laser level.			

CONC 122 - Concrete

You will learn the skills required to test, place, consolidate, finish, and cure concrete. Concrete maintenance and repair will also be covered.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe concrete mixes and admixtures.			
2. Test concrete.			
3. Perform placement, finishing and curing of concrete.			
4. Describe concrete maintenance repair.			

EQPT 126 - Tools

You will learn how to select and properly use a wide variety of hand tools, portable power tools and stationary tools and equipment. You will also learn how to identify and use powder actuated tools.

Credit unit(s): 4.0
Prerequisites: PROJ 122
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Use of measuring, layout, and testing tools.			
2. Use cutting and boring hand tools			
3. Use fastening and dismantling hand tools			
4. Identify electrical systems for portable power tools.			
5. Use portable power tools.			
6. Identify the compressed air supply system.			
7. Use stationary power tools and equipment.			
8. Use powder actuated tools.			

FNDT 120 - Foundations

You will learn how to construct and install formwork for footings, grade beams, and slabs-on-grade. Various types of concrete formwork will be covered as well as procedures for installing reinforcing materials, miscellaneous inserts, and anchor bolts. Procedures for constructing permanent wood foundations will also be covered.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Construct formwork for footings.			
2. Construct grade beam formwork and pilings.			
3. Construct formwork for foundation walls.			
4. Identify procedures for foundation drainage damp proofing, water proofing, and backfilling.			
5. Construct formwork for slabs-on-grade.			
6. Identify concrete reinforcement.			
7. Identify procedures for permanent wood foundations.			

FRMG 126 - Floor Framing

You will learn to assemble various types of floor systems as well as procedures for installing floor sheathing. You will also learn basic principles required for deck construction.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Design beams and supports.			
2. Construct floor systems.			
3. Identity floor sheathing and installations procedures.			
4. Identify deck systems.			

FRMG 221 - Wall Systems

You will learn how to construct wood frame walls, steel stud walls and ceiling joists. Installing strapping, blocking, and furring is also covered.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Construct wall framing systems.			
2. Identify engineered wall systems.			
3. Identify structural timber construction.			

MATE 126 - Building Materials

You will learn to identify different types of wood and non-wood products used in the construction industry as well as various types of mechanical and non-mechanical fasteners and anchors.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify types of wood and lumber used in the construction process.			
2. Identify types of engineered panels used in the construction process.			
3. Identify types of engineered wood products used in the construction process.			
4. Identify proper storage for various building materials.			
5. Identify fasteners and procedures for their use.			
6. Identify metals used in construction.			

MATH 127 - Trade Math

You will learn how to use whole numbers, common and decimal fractions, percentages, ratio and proportions, angular measurements, length, area, and volume measurements in the Imperial and metric system. You will also convert Imperial and metric measurements.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Operate an electronic calculator.			
2. Perform mathematical calculations used in the construction process.			
3. Use metric and Imperial systems of weights and measure.			
4. Perform mathematical calculations used in carpentry.			

PROJ 122 - Projects

You will apply the skills and knowledge acquired in EQPT 126 (Tools) to construct shop projects. Hands-on experience will help you acquire skills in using common tools of the trade.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Operate hand tools.			
2. Construct a project using hand tools.			
3. Operate portable power tools.			
4. Construct a project using portable power tools.			
5. Operate stationary tools.			
6. Construct a project using stationary tools.			

SFTY 129 - Safety Awareness

You will learn to apply occupational health and safety regulations. You will be able to identify and describe personal protective equipment, fall protection, working environment hazards, and industrial health hazards.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify Occupational Health and Safety legislation.			
2. Select personal protective clothing and equipment.			
3. Identify fall protection equipment.			
4. Recognize unsafe working environments.			
5. Identify fire safety procedures and control.			
6. Identify types of industrial health hazards.			

BPRT 222 - Construction Documents

You will learn how to identify and interpret residential construction drawings to determine the location, sizes, and types of materials required for residential buildings.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify working drawings and construction drawings.			
2. Identify symbols and notations used in residential construction.			
3. Identify floor and basement plans.			
4. Identify elevation drawings.			
5. Interpret residential construction drawings.			

CNST 127 - Transits

You will lay out a building using a transit. You will learn how to set up the transit and read horizontal and Vernier scales. You will also determine, verify and layout angles in degrees horizontally and vertically using a transit.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify types of transits.			
2. Describe procedures for setting up a transit.			
3. Lay out angles using a transit.			
4. Determine elevations using a transit.			
5. Lay out a building using a transit.			
6. Calculate the height of an object using a transit.			
7. Describe procedures for using total stations.			

EXFN 220 - Exterior Finishes and Accessories

You will learn procedures for constructing cornices and installing exterior finishes.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify types of cornices.			
2. Construct cornices.			
3. Identify exterior wall coverings.			
4. Install exterior wall coverings.			

EXFN 221 - Exterior Windows and Doors

You will learn the installation procedures for exterior windows and doors.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Install exterior windows.			
2. Install exterior doors.			

FRMG 222 - Roof Framing

You will learn how to construct gable and shed roofs. You will also learn how to lay out, assemble and erect engineered roof trusses.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Construct conventional gable and shed roofs.			
2. Assemble engineered roof trusses and install sheathing.			
3. Calculate gable roofs using metric measurements.			

INFN 320 - Interior Finishes

You will learn to identify various types of interior wall system used in construction. You will also learn to install a residential interior door and hardware. Installing casing, baseboards and other trim will also be covered.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify interior wall systems.			
2. Install residential door frames, doors, and hardware.			
3. Install finish components and accessories.			

INFN 321 - Wall Cabinets

You will study the materials, terminology, and design considerations used in the construction of cabinets. You will also learn how to construct and install wall cabinets.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify cabinet design considerations.			
2. Identify terminology used in cabinet construction and installation.			
3. Identify hardware used in cabinet construction.			
4. Identify hardware used in cabinet construction.			
5. Construct a wall cabinet.			
6. Describe procedures for installing wall cabinets.			

INSL 220 - Building Envelope

You will be able to describe the fundamentals of building science including heat transfer, air flow issues, moisture control, and air quality concerns. You will also be able to describe the procedures required to install insulation and air/vapour barriers to meet building standards.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the fundamentals of building science.			
2. Describe the procedures to insulate and seal the building envelope.			

JOBS 125 - Essential Job Skills

You will develop essential job skills by preparing job search documents and practicing effective interpersonal communication skills for the workplace.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss effective workplace interpersonal communications.			
2. Prepare job search documents.			

ROOF 220 - Roof Coverings

You will receive instruction and practice in applying asphalt, wood, and metal and fiberglass shingles. Flashing, and venting and eave protection will also be covered.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify roof covering materials.			
2. Install roof coverings.			

SCAF 120 - Scaffolds and Rigging

You will receive the theory and hands on experience needed for the safe use of ladders, ramps and runways used in construction. The course content includes erecting, maintaining, and dismantling various types of access scaffolds and rigging and hoisting equipment.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the safe use of ladders and ramps.			
2. Describe the erection, maintenance, and dismantling of wood and metal access scaffolds.			
3. Identify basic rigging operations.			

STRS 120 - Wood Stairs

You will learn how to calculate and construct basic wood stairs. You will also learn how to calculate the dimensions for basic stairwell opening in residential construction.

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

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Identify terminology and components used in stair construction.			
2. Determine code requirements for stairs and landings.			
3. Perform mathematical calculations for stairs.			
4. Describe procedures for laying out a cut-out stringer.			
5. Describe procedures for laying out a dadoed stringer.			
6. Construct wood stairs.			
7. Calculate dimensions for straight stairwell openings.			

WORK 125 - Work Placement

You will spend two weeks gaining experience in the construction industry. This will allow you to apply the technical skills and knowledge you acquired during the program. You will have the opportunity to select a company where you would like to complete your work experience.

Credit unit(s): 0.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Perform various construction tasks during on-the-job work experience.			
2. Demonstrate employability skills in the workplace.			