

# 2024/2025 OFFERING SCHEDULE

Course	Fall	Winter
<b>TRA1131</b> - Introduction to the Trades	✓	✓
<b>TRA1132</b> - Introduction to Transportation Trades		✓
<b>TRA1133</b> - Introduction to Electrical Trades	✓	
<b>TRA1134</b> - Introduction to Construction Trades	✓	
<b>TRA1135</b> - Introduction to Culinary Trades		✓
Program		
<b>Pre-Employment Carpentry</b> Program		✓
<b>Pre-Employment Electrical</b> Program	✓	✓
<b>Pre-Employment Pipe Trades</b> Program	✓	✓
<b>Pre-Employment Welding</b> Program	✓	✓

## APPLICATION DEADLINES

Dual Credit courses and programs are scheduled to run in both the fall and winter semesters.

The following deadlines allow our teams adequate time to allocate seats and to prepare for students' arrival:

Deadline	Date
Fall Semester Applications	June 14, 2024
Winter Semester Applications	Nov. 29, 2024

## SACI SEMESTER DATES



In order to best accommodate course and program lab dates, SACI semesters differ slightly from general dual credit or Lethbridge College semester dates. Please refer to specific dates on the following page for the most up-to-date info.

Please review the following SACI semester dates:

Semester	First Day	Last Day
Fall	Sept. 3, 2024	Dec. 13, 2024
Winter	Feb. 3, 2025	May 15, 2025

# FL24 SCHEDULE EXPECTATIONS

Introductory trades courses are delivered in a blended format - theory content will be covered online asynchronously and lab work will take place on campus in a series of predetermined Friday dates that have been approved by both the college and school divisions.

Registered students are required to attend all on campus sessions - failure to attend may result in removal from the course. For students who will miss any regularly scheduled high school classes on the specified dates, arrangements can be made with the school.

Here are the dates of mandatory on-campus sessions. Please note, these may differ based on course offering:

## INTRODUCTION TO THE TRADES TRA1131

- Sept. 27, 2024 (*orientation*)
- Oct. 11, 2024
- Oct. 25, 2024
- Nov. 1, 2024
- Nov. 8, 2024
- Nov. 15, 2024
- Nov. 29, 2024
- Dec. 6, 2024
- Dec. 13, 2024 (*presentations*)

## INTRODUCTION TO ELECTRICAL TRA1133

- Oct. 4, 2024 (*orientation*)
- Oct. 11, 2024
- Oct. 25, 2024
- Nov. 1, 2024
- Nov. 8, 2024
- Nov. 29, 2024
- Dec. 6, 2024

## INTRODUCTION TO CONSTRUCTION TRA1134

- Oct. 4, 2024 (*orientation*)
- Oct. 11, 2024
- Oct. 18, 2024
- Oct. 25, 2024
- Nov. 1, 2024
- Nov. 15, 2024
- Nov. 29, 2024
- Dec. 6, 2024

*TRA1131/TRA1133/TRA1134 labs take place on Fridays, from 9 a.m. to 4 p.m. at Lethbridge College.*

Pre-employment programs are delivered entirely on campus, with a blend of lab and lecture courses. Students will be required to attend classes daily for a semester, following a program-specific schedule provided through their Lethbridge College account upon enrollment. Consistent failure to attend classes may result in removal from the program.

Pre-Employment programs consist of five or six courses that run for fifteen weeks:

## PRE-EMPLOYMENT PROGRAMS ELECTRICAL, PIPE TRADES + WELDING

- Daily on-campus attendance
- Starts Sept. 3, 2024
- Ends Dec. 13, 2024

# PPE REQUIREMENTS

Students will require personal protective equipment in order to participate in labs, which may include:

- Steel-toe boots
- Safety glasses
- Coveralls
- Hearing protection

*Please note, students enrolled in TRA1131 will be provided PPE, free of charge. Students in pre-employment programs will require an additional list of equipment and materials, outlined in the official welcome letter.*

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## TRA1131 - INTRODUCTION TO THE TRADES

Offered in the Fall + Winter semesters

**Delivery Method:** Online asynchronous + on-campus labs

**Total Hours:** 75

**College Credits:** 3

**High School Credits:** 5

**Pre-Requisites:** None

**Materials Cost:** \$250 (approx.)

### Course Description:

As an introductory course, students will explore and experience 12 trades including plumber, welder, carpenter, electrician, power line technician, wind turbine technician, automotive technician, heavy equipment technician, agricultural heavy equipment technician, parts technician, cook and baker. Students will participate in both online knowledge-based work complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for trades and give them a better understanding of their own aptitude and interests.

### Course Outcomes:

1. Recognize their own aptitude and interests within the trades.
2. Demonstrate an introductory understanding of each individual trade.
3. Apply basic safety practices within each trade.
4. Apply knowledge of each trade skill set to lab situations.
5. Apply knowledge of tools to a lab situation.

### Assessments:

- Quizzes
- Labs (*Nine Fridays throughout the semester - subject to change*)
- Portfolio

### Required Equipment & Materials:

- Coveralls
- CSA-approved safety shoes/boots
- Safety glasses

### Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

# TRA1132 - INTRODUCTION TO TRANSPORTATION TRADES

Offered in the Winter semester

**Delivery Method:** Online asynchronous + on-campus labs

**Total Hours:** 76

**College Credits:** 3

**High School Credits:** 5

**Pre-Requisites:** None

**Materials Cost:** \$250 (approx.)

## Course Description:

Students will explore automotive, heavy-duty, agriculture equipment, and parts trades. Students will participate in both online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for automotive, heavy-duty, agriculture equipment, and parts trades, giving them a refined understanding of their own aptitude and interests.

## Course Outcomes:

1. Evaluate your own aptitude and interests within automotive, heavy-duty, agriculture equipment and parts trades.
2. Demonstrate awareness of automotive, heavy-duty, agriculture equipment and parts trades environments.
3. Apply safe work practices within automotive, heavy-duty, agriculture equipment and parts trades.
4. Apply knowledge of automotive, heavy-duty, agriculture equipment and parts trades occupational skill sets to lab situations.
5. Apply knowledge of tools to automotive, heavy-duty, agriculture equipment and parts trades.
6. Recognize the relationship between automotive, heavy duty, agriculture equipment and parts trades.

## Assessments:

- Quizzes
- Labs (*Eight Fridays throughout the semester - subject to change*)
- Assignments
- Discussions
- Portfolio

## Required Equipment & Materials:

- Coveralls
- CSA-approved safety shoes/boots
- Safety glasses

## Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

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## TRA1133 - INTRODUCTION TO ELECTRICAL TRADES

Offered in the Fall semester

**Delivery Method:** Online asynchronous + on-campus labs

**Total Hours:** 60

**College Credits:** 3

**High School Credits:** 5

**Pre-Requisites:** None

**Materials Cost:** \$200 (approx.)

### Course Description:

Students will explore electrical and wind turbine technician trades. Students will participate in online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for electrical and wind turbine technician trades, giving them a refined understanding of their own aptitude and interests.

### Course Outcomes:

1. Evaluate your own aptitude and interests within electrical and wind turbine technician trades.
2. Demonstrate awareness of electrical and wind turbine technician trades environments.
3. Apply safe work practices within electrical and wind turbine technician trades.
4. Apply knowledge of electrical and wind turbine technician trades occupational skill sets to lab situations.
5. Apply knowledge of tools to electrical and wind turbine technician trades.

### Assessments:

- Quizzes
- Labs (*Eight Fridays throughout the semester - subject to change*)
- Assignments
- Discussions
- Portfolio

### Required Equipment & Materials:

- Gloves
- CSA-approved safety shoes/boots
- Safety glasses

### Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

## TRA1134 - INTRODUCTION TO CONSTRUCTION TRADES

Offered in the Fall semester

**Delivery Method:** Online asynchronous + on-campus labs

**Total Hours:** 70

**College Credits:** 3

**High School Credits:** 5

**Pre-Requisites:** None

**Materials Cost:** \$250 (approx.)

### Course Description:

Students will explore carpentry, welding and pipetrades. Students will participate in both online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade. This course will develop students' appreciation for carpentry, welding, and pipetrades trades, giving them a refined understanding of their own aptitude and interests.

### Course Outcomes:

1. Evaluate your own aptitude and interests within carpentry, welding and pipetrades.
2. Demonstrate awareness of carpentry, welding and pipetrades environments.
3. Apply safe work practices within carpentry, welding and pipetrades.
4. Apply knowledge of carpentry, welding and pipetrades occupational skill sets to lab situations.
5. Apply knowledge of tools to carpentry, welding and pipetrades.

### Assessments:

- Quizzes
- Labs (*Eight Fridays throughout the semester - subject to change*)
- Assignments
- Discussions
- Portfolio

### Required Equipment & Materials:

- Coveralls
- CSA-approved safety shoes/boots
- Safety glasses

### Transferability:

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

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## TRA1135 - INTRODUCTION TO CULINARY TRADES

*Offered in the Winter semester*

**Delivery Method:** Online asynchronous + on-campus labs

**Total Hours:** 74

**College Credits:** 3

**High School Credits:** 5

**Pre-Requisites:** None

**Materials Cost:** None

### **Course Description:**

Students will explore the culinary field through different thematic culinary experiences. Students will participate in both online knowledge-based work, complemented with a hands-on component to developing key skills in each specific trade that are applicable to everyday life. This course will develop students' appreciation for culinary trades, refining their own skills, aptitude, and interests.

### **Course Outcomes:**

1. Evaluate your own aptitude and interests within cooking and baking trades.
2. Demonstrate awareness of cooking and baking trades environments.
3. Apply safe work practices when cooking and baking.
4. Apply knowledge of cooking and baking trades occupational skill sets in lab situations.
5. Apply knowledge of equipment when cooking and baking

### **Assessments:**

- Quizzes
- Labs (*Seven Fridays throughout the semester - subject to change*)
- Assignments
- Discussions
- Portfolio

### **Required Equipment & Materials:**

- None

### **Transferability:**

- *Approved Elective for:* General Arts and Sciences
- *External Transfer Equivalent at:* No transfer opportunities offered at this time.

# PRE-EMPLOYMENT CARPENTRY PROGRAM

*Offered in the Winter semester*

**Delivery Method:** On-campus lectures + labs

**Length of Program:** 15 weeks

**College Credits:** 19

**High School Credits:** 15 CTS

**Pre-Requisites:** English 10-2 + Math 10-3

**Materials Cost:** \$450 *(approx.)*

## Program Description:

This program is an introduction to the fundamentals of carpentry, including aspects of important safety practices, building materials, common tools, foundation and support systems, and more. With a combination of theoretical knowledge and hands-on experience, students will gain skills for a successful career in carpentry. This program covers all first-year carpentry apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

## Courses:

1. CRP1100: Safety and Building Materials *(3hrs/week)*
2. CRP1101: Tools *(8hrs/week)*
3. ECRP1102: Site Preparation *(8hrs/week)*
4. ECRP1103: Estimating and Drawing *(6hrs/week)*
5. CRP1104: Practicum Placement *(2 weeks)*

## Assessments:

- Quizzes
- Exams
- Projects
- Labs
- Practicum Evaluation

## Required Equipment & Materials: *(to be confirmed)*

- Apprenticeship first period Carpentry ILM Package
- Drafting Supplies
- SHARP-520XT calculator
- Safety glasses
- CSA-approved safety shoes/boots

## Certificate

- Upon program completion, students will receive a Pre-Carpentry Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

## Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge College or other accredited Albertan post-secondaries.

## CTS Course Equivalents:

- *CRA3900, CRA3402, CRA3407, CRA3412, CRA3417, CRA3422, CRA3427, CRA3432, CRA3437, CRA3442, CRA3447, CRA3452, CRA3457, CRA3462 + CRA3467.*



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## PRE-EMPLOYMENT ELECTRICAL PROGRAM

*Offered in the Fall + Winter semester*

**Delivery Method:** On-campus lectures + labs

**Length of Program:** 15 weeks

**College Credits:** 19

**High School Credits:** 15 CTS

**Pre-Requisites:** English 20-2, Math 20-3 + Science 10

**Materials Cost:** \$450 *(approx.)*

### **Program Description:**

This program is an introduction to the fundamentals of the electrical trade, including aspects of important safety legislation, principles of electromotive force, circuit tests and repairs, the Canadian Electrical code and more. With a combination of theoretical knowledge and practical application, students will gain skills for a successful electrical career. This program covers all first-year electrical apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

### **Courses:**

1. ELT1100: Workplace safety *(2hrs/week)*
2. ELT1101: Circuit Fundamentals *(10hrs/week)*
3. ELT1102: Lab Fundamentals *(6hrs/week)*
4. ELT1103: Electrical Code and Drawings *(6hrs/week)*
5. ELT1104: Practicum Placement *(2 weeks)*

### **Assessments:**

- Quizzes
- Exams
- Labs
- Practicum Evaluation

### **Required Equipment & Materials:** *(to be confirmed)*

- Apprenticeship first period Electrician ILM Package
- Electrical Code Book
- SHARP-520XT calculator
- Safety glasses
- Ruler

### **Certificate**

- Upon program completion, students will receive a Pre-Electrical Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

### **Transferability:**

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge College or other accredited Albertan post-secondaries.

### **CTS Course Equivalents:**

- *ETA3900, ETA3400, ETA3405, ETA3410, ETA3415, ETA3420, ETA3425, ETA3430, ETA3435, ETA3440, ETA3445, ETA3450, ETA3455, ETA3460 + ETA3465.*

# PRE-EMPLOYMENT PIPE TRADES PROGRAM

Offered in the Fall + Winter semester

**Delivery Method:** On-campus lectures + labs

**Length of Program:** 15 weeks

**College Credits:** 19

**High School Credits:** 15 CTS

**Pre-Requisites:** English 20-2, Math 20-3 + Science 10

**Materials Cost:** \$450 (approx.)

## Program Description:

This program is an introduction to the fundamentals of pipe trades, including aspects of important safety legislation, effective tool usage, welding basics, drawing concepts, scientific principles and more. With a combination of theoretical knowledge and practical application, students will gain skills for a successful career in the pipe trades. This program covers all first-year pipe trades apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

## Courses:

1. PTR1100: Workplace Safety and Rigging (3hrs/week)
2. PTR1101: Tools, Equipment and Materials (9hrs/week)
3. PTR1102: Metal Fabrication (5 hrs/week)
4. PTR1103: Drawing and Specifications (3hrs/week)
5. PTR1104: Calculations and Science (5hrs/week)
6. PTR1105: Practicum Placement (5hrs/week)

## Assessments:

- Quizzes
- Exams
- Labs
- Calculations
- Practicum Evaluation

## Required Equipment & Materials: (to be confirmed)

- Apprenticeship first year GAS (Gas Fitting) PLU ILM package
- IPT Pipe Trade's Handbook
- Casio Fx-260 calculator
- Architectural and metric rulers
- Safety glasses
- CSA-approved safety shoes/boots

## Certificate

- Upon program completion, students will receive a Pre-Pipe Trades Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

## Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge College or other accredited Albertan post-secondaries.

## CTS Course Equivalents:

- PLA3900, PLA3406, PLA3411, PLA3416, PLA3421, PLA3426, PLA3431, PLA3436, PLA3441, PLA3446, PLA3451, PLA3456, PLA3461, PLA3466 + PLA3471.

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## PRE-EMPLOYMENT WELDING PROGRAM

*Offered in the Fall + Winter semester*

**Delivery Method:** On-campus lectures + labs

**Length of Program:** 15 weeks

**College Credits:** 19

**High School Credits:** 15 CTS

**Pre-Requisites:** English 10-2 + Math 10-3

**Materials Cost:** \$600 (*approx.*)

### Program Description:

This program is an introduction to the fundamentals of the welding trade, including aspects of safety protocol, electrical concepts, common weld styles, math principles and more. With a combination of theoretical knowledge and practical application, students will gain skills for a successful welding career. This program covers all first-year welding apprentice material, as well as a two-week practicum placement with an industry partner to prepare students to enter the workforce.

### Courses:

1. WDG1100: Workplace Safety and Tools (*5hrs/week*)
2. WDG1101: Properties of Metal (*6hrs/week*)
3. WDG1102: Welding Process (*10 hrs/week*)
4. WDG1103: Welding Trade Math (*3hrs/week*)
5. WDG1104: Practicum Placement (*2 weeks*)

### Assessments:

- Quizzes
- Labs
- Exams
- Assignments
- Practicum Evaluation

### Required Equipment & Materials: (*to be confirmed*)

- 1st Period ILM Welding package
- IPT Metal Trades Handbook
- Casio FX-260 calculator
- Safety glasses
- CSA-approved safety shoes/boots
- Coveralls
- Medium duty welding gloves
- Welding helmet

### Certificate

- Upon program completion, students will receive a Pre-Welding Certificate and be eligible to write the first period apprenticeship exam. Successful completion of the exam will provide credit for first period technical training.

### Transferability:

- Upon receiving credit for first period technical training, students can pursue a full apprenticeship program with Lethbridge College or other accredited Albertan post-secondaries.

### CTS Course Equivalents:

- WDA3900, WDA3401, WDA3403, WDA3406, WDA3407, WDA3408, WDA3411, WDA3413, WDA3415, WDA3420, WDA3423, WDA3427, WDA3429, WDA3432 + WDA3437.