

# Northland Collegiate

Mobile Collegiate

Offering “big school” opportunities in “small school” settings



# What Will We Present Today?

- Barriers and solutions
- Experiential Learning
- Northland Collegiate School
- Dual Credit paths and options
- Work Place readiness



# Mobile/Rural Collegiate Model

How can we offer the same kind of opportunities for students in small, rural communities that are offered in larger, urban schools?

## *Table Talk*

What are the barriers to offering these experiences in your communities?





## Northland Collegiate



Program	Educational Assistant Program	Carpentry Program		Welding		Healthcare Careers and Health Care Aide	Multi Trade <ul style="list-style-type: none"> <li>Welding</li> <li>Heavy Duty Mechanics</li> <li>Electrician</li> </ul>
Schools	Division Wide- 6 schools	Wabasca Site - 3 schools	Paddle Prairie Site - 1 School	Wabasca Site - 3 schools	Paddle Prairie Site - 1 School	Wabasca Site - 3 schools	Fort McMurray Site- 1 school (Bill Woodward)
Industry Partner(s)	Northland School Division is the Industry Partner	Ricksim Trucking as Industry Partner  CAREERS is the Industry Partner	CAREERS is the Industry Partner  Paddle Prairie Metis Settlement	CAREERS is the Industry Partner	CAREERS is the Industry Partner  Paddle Prairie Metis Settlement	Atoske Action Group - Employment service group as Industry Partner  CAREERS is the Industry Partner	CAREERS is the Industry Partner  Suncor Energy is a financial partner
Post-Secondary Partner	Northern Lakes College  Lethbridge Polytechnic	Northern Lakes College	Northern Lakes College	Northern Lakes College	Northern Lakes College	Northern Lakes College  Lethbridge Polytechnic	Keyano College
Program start date	Start Feb 2025	Feb 2025	Sept 2025	Sept 2025	Sept 2025	February 2025	March 2025
Credits	HS Dual Credits and credit towards a certificate	CTS credits are available as a bridge	CTS/RAP credits are available as a bridge	CTS credits	CTS credits	CTS credits HCA Certificate	CTS credits available as a bridge



**Northland**  
SCHOOL DIVISION

# What Does Mobile Mean?

In some cases we are bringing kids to the trades and sometimes the trades come to them

- CTS placements
- Mobile trailer
- Local Tradespersons
- upgrade to CTS shops



# Dual Credit vs Work Place Readiness for a Rural Division

- **Scheduling**

- asynchronous for dual credit
- cohort and personalized instructor time for work place readiness
  - Keyano trades is second semester on campus
  - Heath Care Aid is afternoons all year
  - Construction
- Alternative programming to open up the schedule
  - online school
  - common timetable

- **Funding**

- Grants
- Grade 13
- local industry



# CTS WEEK- Experiential Learning for grades 10-12

- Division Initiative to focus on the *experiential learning* in CTS/Trades/Industry/Careers for High School students
- 3-5 days scheduled in divisional high school calendar
- Options offered
  - Work placements
    - Crane, Heavy Duty Mechanics, Real Estate, Lifeguarding, Parts, Floral Shop, Grocery Store, Hair Salon, Autobody, Restaurant, Artist
  - Cultural Learning
    - beading, tipi building
  - CTS options
    - Welding, Art, Carpentry



# CTS WEEK (pictures)



# Forestry Week

- Paid for by Industry Partners and FRIA funding (Forest Resource Improvement Association of Alberta)
- Computer Simulators
- On the land tree identification and hands on learning in local forest environment
- Wilderness Safety and Survival
- Orienteering
- Equipment
- Students earn 4 CTS credits
- Looking into dual credit options with post-secondary forestry programs



# Forestry Week



# Table Talk

What options have you been able to provide for your students through outside the box, innovative thinking and planning?



# How Our Collegiate Functions

- Collegiate Champions (what the heck is that?)
  - Credit Mapping
  - Transportation
  - Travel and Programming logistics
  - student vetting
  - program information sharing
- Grants
  - Collegiate School Start up for trades/Enhancement of CTS
  - Enhancement Dual Credit Grant for Health Care Aid
  - Start Up Dual Credit Grant for IYMP/Wellness and Educational Assistant
- Common Schedule
- Local Journeymen and Industry Partners



# Welding

- **Bill Woodward**
  - in school welding shop
  - local welder
  - Keyano College Work Place Readiness
- **Paddle Prairie**
  - portable shop trailer
  - local welder
- **Mistassiniy**
  - state of the art new Welding Shop
- **Work with NLC**
  - Pre Employment opportunities
  - using local tradespersons as instructors



# Welding



# Cultural Learning



# Heavy Duty Mechanics

## Why a Trades Trailer?

- Small schools in rural communities
- difficult to provide opportunities

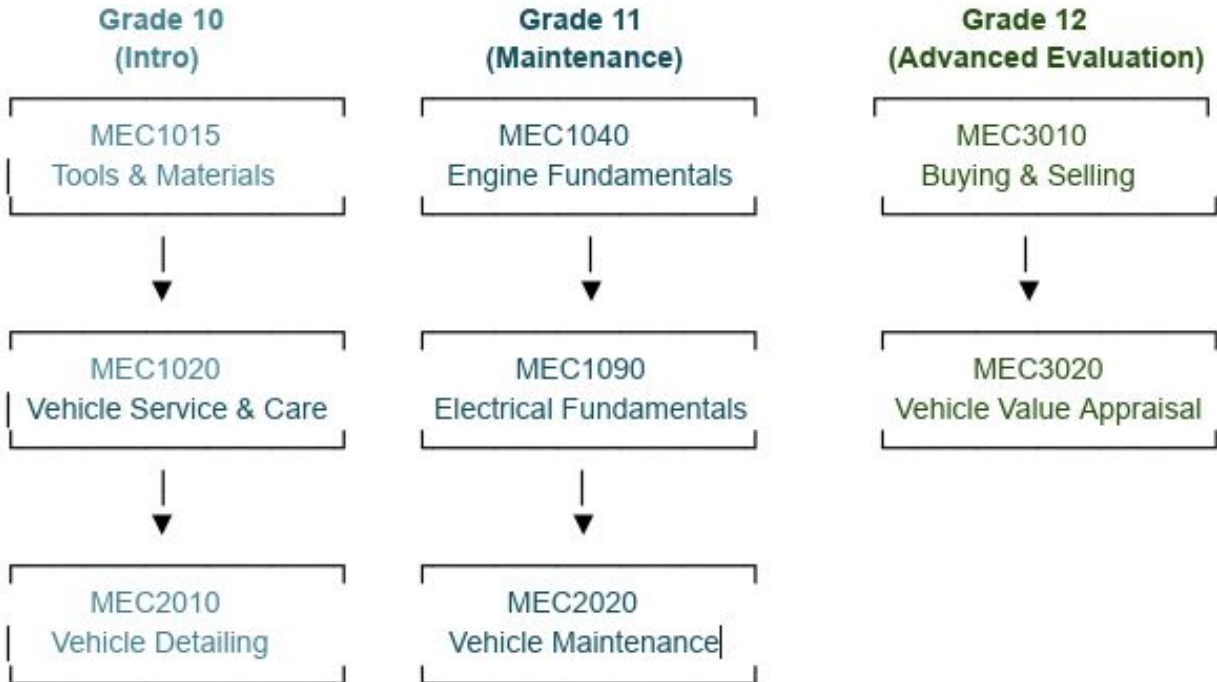
## What does it include?

- All tools and equipment needed for basic mechanics
- Trailer that can pull behind regular truck
- Pre set modules and simple instructions to earn basic mechanics CTS credits



# Auto and Small Engine Mechanics

## Mobile Mechanics CTS Pathway (10-20-30) – Automotive Program



Mechanics Trailer



**Keyano College**

[www.keyano.ca](http://www.keyano.ca)

The Pre-Employment Heavy Equipment Technician program provides an alternative entry into Apprenticeship. Students will receive four weeks of academic upgrading and employability skills followed by the first period of technical training (eight weeks) in Heavy Equipment Technician.



**Northland  
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# Heavy Duty Mechanics

## Mobile Mechanics CTS Pathway (10-20-30) – Trailer Program

### Grade 10 – Introduction (10-Level)

#### Course

#### Mobile Feasibility

MEC1015 – Mechanics Tools & Materials	✓ Hand tools, torque tools, fasteners
MEC1020 – Vehicle Service & Care	✓ Preventive maintenance, inspections, fluid service
MEC2010 – Vehicle Detailing	✓ Exterior/interior care, wax, protection

**Focus:** Safety, tool use, inspections, basic maintenance, vehicle care.

### Grade 11 – Maintenance & Diagnostics (20-Level)

#### Course

#### Mobile Feasibility

MEC1040 – Engine Fundamentals	✓ Component ID, engine theory, fluid checks
MEC1090 – Electrical Fundamentals	✓ Battery, DVOM, circuits, sensor voltage checks
MEC2020 – Vehicle Maintenance	✓ Oil, fluids, filters, tire service, preventive maintenance

**Focus:** Engine theory, electrical systems, preventive maintenance, mobile troubleshooting.

### Grade 12 – Vehicle Evaluation & Industry Practices (30-Level)

#### Course

#### Mobile Feasibility

MEC3010 – Buying & Selling Vehicles	✓ Vehicle inspection, cost analysis, buying/selling strategy
MEC3020 – Vehicle Value Appraisal	✓ Appraisal, repair estimation, standardized evaluation

**Focus:** Vehicle inspection for value and safety, appraisal skills, real-world decision-making.



# CTS modules ready to go

**Unit 3: Disassembly & Cleaning**

**Learning Focus:**  
Disassembling and cleaning components

Hands-On Task: Cleaning Lab

**Student Checklist:**

- Disassembled engine
- Cleaned components
- Organized parts

**Instructor Guidance:**

- Demonstrate cleaning
- Monitor organization

**Unit 3: Disassembly & Cleaning**

**Section B – Cleaning Methods**

Instructions:

1. Match part to method of cleaning.

Part	Method
Piston	
Block <input type="button" value="v"/>	

**Section C – Before & After**

Instructions:

1. Observe before cleaning.  
2. Observe after cleaning.  
3. Record difference.

Component	Before	After
Piston		
Block		

**UNIT 3 – Disassembly & Cleaning**

Focus: Cleaning, organization, preparation

Criteria	4	3	2	1
Disassembly Process	Correct and organized	Minor errors	Needs support	Incorrect
Cleaning Effectiveness	Thorough and complete	Mostly clean	Partially clean	Poor cleaning
Tool Use	Correct and safe	Minor errors	Inconsistent	Unsafe use
Organization of Parts	Clearly labeled and organized	Mostly organized	Some confusion	Disorganized

# Post Secondary - Dual Credit

- Olds College
- Lethbridge Polytechnic
- Keyano College
- Northern Lakes College
- SAIT
- MacEwan University



# Health Care Aide/Careers

- Started with Experiential Learning in CTS option “Health Care Careers”
  - Partnered with community and AHS, NLC
  - Shortage of health care workers in community
  - Speakers and hands on learning
- First Health Care Aide course running this year (2025-2026)
  - Dual Credit Enhancement Grant
  - NLC partnership
    - Lab is in the Wabasca Community
- 



# Health Care Aide/Careers



# Apprenticeship Opportunities

- Through work placements in CTS Days
- Pre Employment Carpentry
- Partnership with Careers Next Generation
- NSD Maintenance Department
  - Starting with Gas Fitter/Plumbers
    - Maintenance workers willing to work with students and adults
  - Looking to explore with Carpentry and Electrical
- Grade 13 opportunities

Alberta 



Apprenticeship  
and Industry  
Training



# Questions/Feedback for Us

