

# NAIT DATE

Distance Apprenticeship  
Training & Education

## Canadian Apprenticeship Forum

Bill Fricker – NAIT

June 6, 2006

# Needs and Opportunities

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- Rural Alberta: Land of Opportunity - MLA Steering Committee Report on Rural Development  
March 2004 [http://www.rural.gov.ab.ca/ralo\\_report.pdf](http://www.rural.gov.ab.ca/ralo_report.pdf)
- Final Report of the MLA Committee on Lifelong Learning  
May 2002 <http://www.learning.gov.ab.ca/reports/special/report.pdf>
- Alberta Learning - **Learning and Technology Policy Framework** July 2004  
<http://www.learning.gov.ab.ca/reading/policy/techframework/LTfwrk.pdf>

# Relevant Pilot Activities

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- RACOL – Welding to 9 students in 5 sites (Drayton Valley, Edson, Hinton, High Level & LaCrete) Feb – Apr 04; apprentices took evening theory classes and remained on the job – all 9 passed AIT exams
- Court Reporting – course to increase efficacy of student operation of transcription machines – now in 9<sup>th</sup> offering; published at CADE – [www.cade-aced.ca](http://www.cade-aced.ca)  
Search Publications – King or Fricker
- Delivered Power Engineering to 12-person cohort at The Learning Center, Hanna AB – employed local journeyperson as an on-site tutor

# Community Supports

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- Alberta Apprenticeship Industry Training (AIT) providing limited resources to equal educational support at the same level as traditional offerings?
- Alberta Learning – videoconference-cost related funding and liaison with other similar projects
- Pembina and Yellowhead Regional Educational Consortia and the Fort Vermilion School Division - supporting registered apprentices in west and NW Alberta
- Operating with a large, diverse guidance team formed from a broad range of stakeholders – including colleges, other province-wide groups and two out-of-province participants

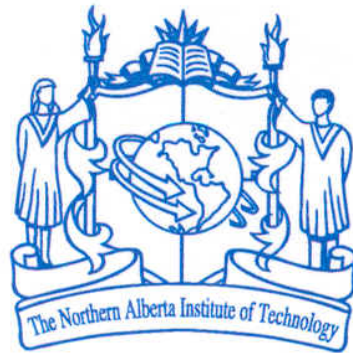
# The three imperatives

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- Save students \$ - avoid need for second residence, travel, etc.
- Let student continue work – No EI
- Promote students remaining in their home community

# Our raison d'être



## **Vision**

To be an outstanding technical institute committed to student success in a global economy

## **Mission**

To anticipate and meet the needs of students and the economy by combining outstanding applied education with a human touch

**human touch**

We choose to use videoconference delivery to optimize the live, visual connection between all participants.

# NAIT DATE Strategies

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- To deliver theory by video-conference to benefit from the instructor's and students' presence to cover the distance involved
- To use and test Alberta's high speed internet –Supernet–for videoconference delivery; see [www.albertasupernet.ca/](http://www.albertasupernet.ca/)
- To offer site visits, super weekends in NAIT shops, or use our NAIT-in-Motion trailers
- To augment paper-based distance apprenticeship programs – Welder & Electrician



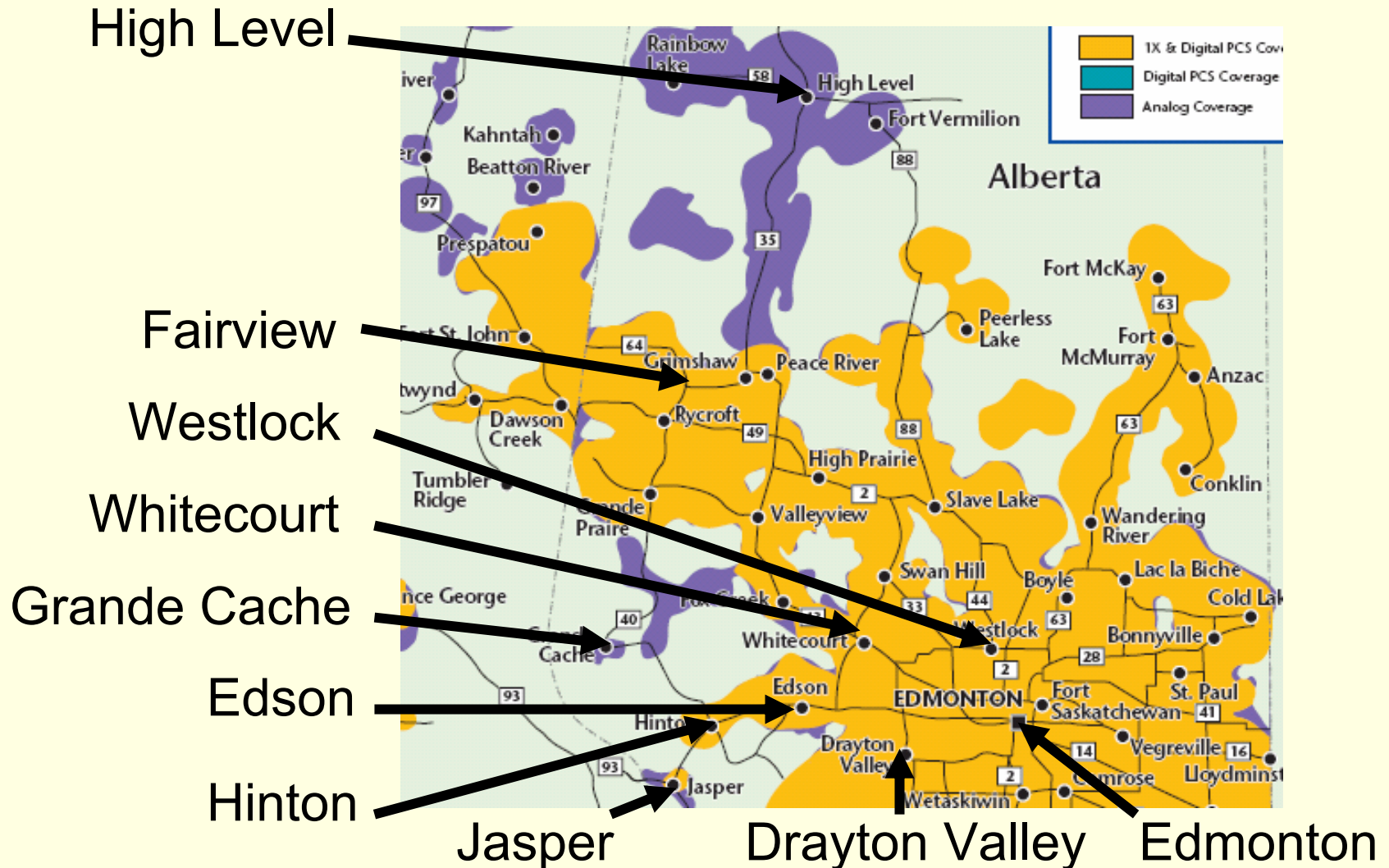
# December 2/06 News Release

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Alberta Apprentice Board Chair, Brian Bickley  
Alberta Advanced Education Minister, Dave Hancock  
NAIT President, Sam Shaw

# NAIT DATE Locations



# Intakes for 2006-07

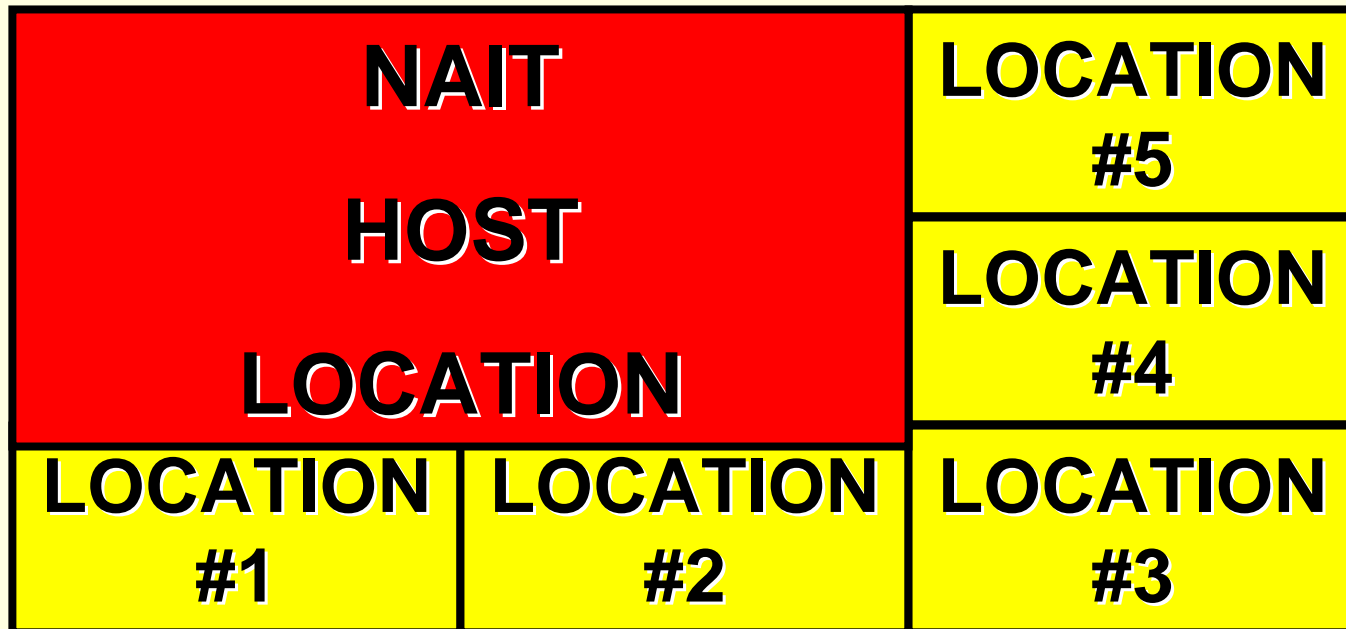
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- Period 1, Electrician and Welder training
  - Nov – March (21 students)
- Period 1 and 2 Electrician and Period One Welder
  - March – June (44 students)
- Pipefitter/steamfitter – NAIT main Edmonton and Fairview campus (students – 24 Edmonton + 12 Fairview)

# VIDEOCONFERENCE

## Monitor/projector- VIEW

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# Welder class – Jan 3/06

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What is a **buzz box**, anyway?

# Welder Math – Dec 6/05

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Fractions ... by request

# Electrician class – Jan 3/06

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**EXAMPLE:**  
A single story house with a full basement has inside dimensions of 9m x 12m, what is the living area used for calculating the basic demand load?

- A) 108 m<sup>2</sup>
- B) 189 m<sup>2</sup>
- C) 162 m<sup>2</sup>
- D) 216 m<sup>2</sup>

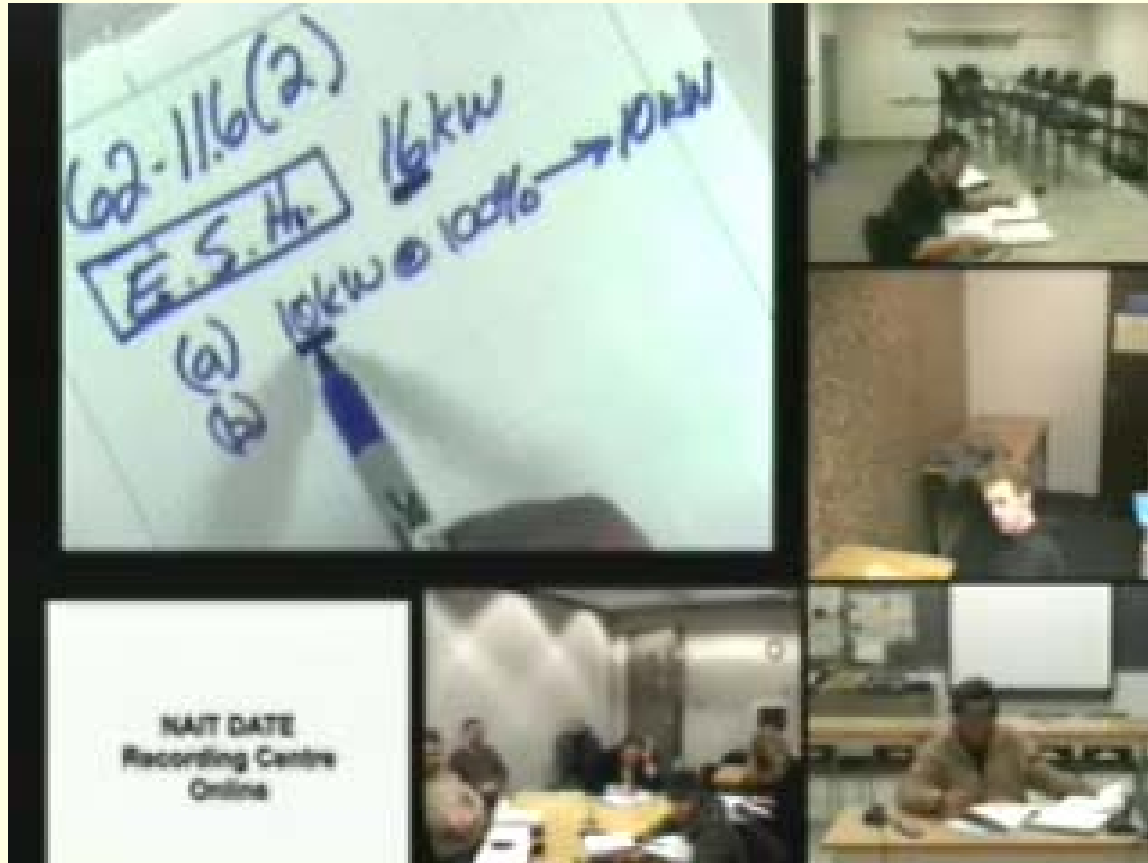
NAIT DATE  
Recording Centre  
Online

The screenshot displays a grid of video feeds from an online class. The top-left feed shows a presentation slide with a question and four multiple-choice options. The bottom-left feed shows a logo for 'NAIT DATE Recording Centre Online'. The other feeds show individual participants in a classroom setting, some looking at their screens and others looking towards the camera.

**Ampacity** with multiple inputs

# Electrician class – Jan 3/06

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**Thumbs up!**

# Challenges and Outcomes

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- Technology – new but akin to science
  - Communication
  - Site tests
  - Archive webcasts
- People – the continual frontier
  - Communication
  - Team building
  - Problem solving
  - Showing Why and How
  - And ...



## ■ Outcomes

- Evaluation report
- Financial analysis
- Conference presentations

# Managing NAIT DATE Project

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Select clear visualizations

Accept some roles and judiciously don't select some other roles ...

balance 30,000 ft view with 3 ft view

This project is my passion – GREAT!

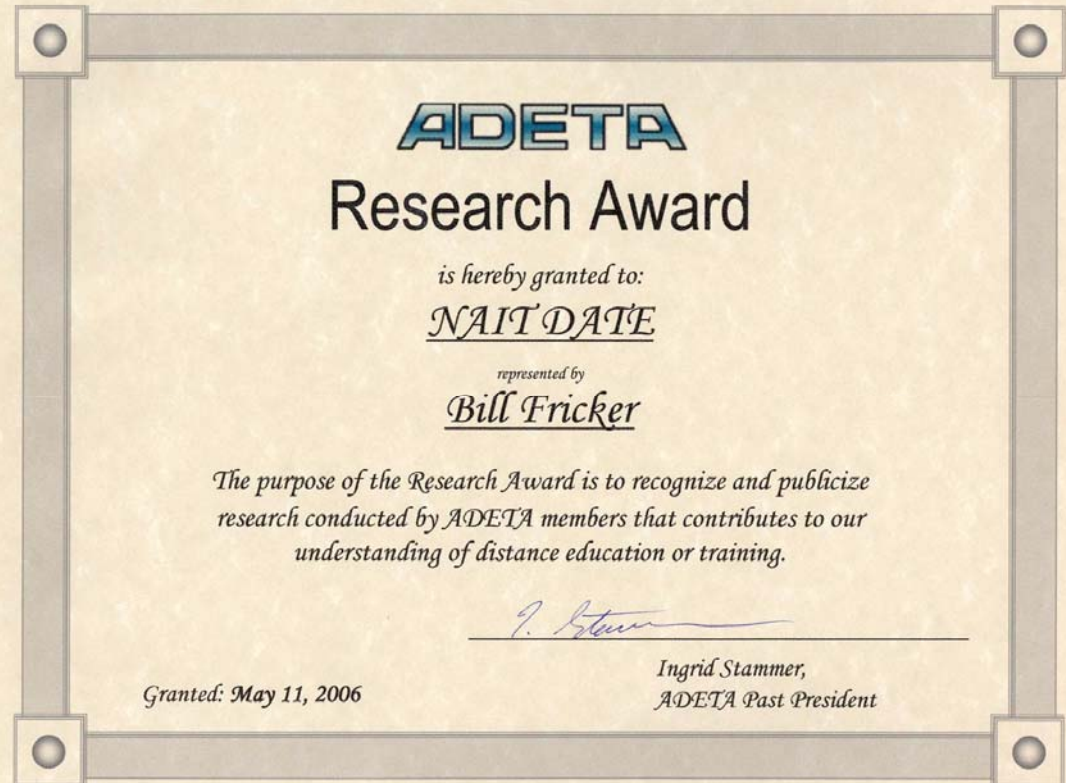
But, what about the others I need to make the project work – will they be as motivated as I am?

# NAIT DATE Project – Preliminary Data

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- November Intake – Electricians
  - 3 of 5 Electrician, Year one students registered for the March intake of Electrician, Year Two
- November Intake – Welders – pending
- March intakes – June 30 year end
- Pipefitters/steamfitters –
  - All students expect to pass

# NAIT DATE Project – ADETA Research Award!! May 11, 2006



[www.adeta.org](http://www.adeta.org)

# NAIT DATE - Evaluation

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- We have engaged Cathy King and Craig Montgomerie (King's Court Communications)
- Evaluation to collect completion ratio and mark data for study and control groups
- Extensive interview data to be collected from students, employers, instructors, and more
- Report to be ready by project conclusion of August 15, 2006

# NAIT In-Motion Trailers



NAIT  
has two mobile  
trades' training  
units

# Inside the NAIT In-motion mobile trailers



# Upcoming events

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## Upcoming conference presentations

- *Distance Education Technology Symposium* DETS (Athabasca University), Edmonton – June 10
- League for Innovations – CIT, Charlotte, North Carolina – Oct 22 - 25
- Challenges of Modern Industrial Training – 8CMIT, Hong Kong – Oct 25 - 27

# NAIT DATE wrap-up

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- Please visit our web site at

- [www.nait.ca/naitdate](http://www.nait.ca/naitdate)



- Questions, comments, etc.

- Please contact

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