



# Water Well Drilling/Geothermal Technician Training Programs

*Presentation to Water Well Workshop  
Department of Environment & Conservation  
April 7, 2009*

We're so much more.



# Presentation

- About College of North Atlantic
- New Training Programs Update
- Programs Overview & Feedback
  - Survey
  - Q & A

We're so much more.



# Your Feedback

1. Does industry still need these programs?
2. What changes if any would you make in content of each Program?
3. Should the two 15-week Programs for “new entrants” be one 30-week Program?
4. Which modules are priority for “existing employees”?
5. What is the best way to market?

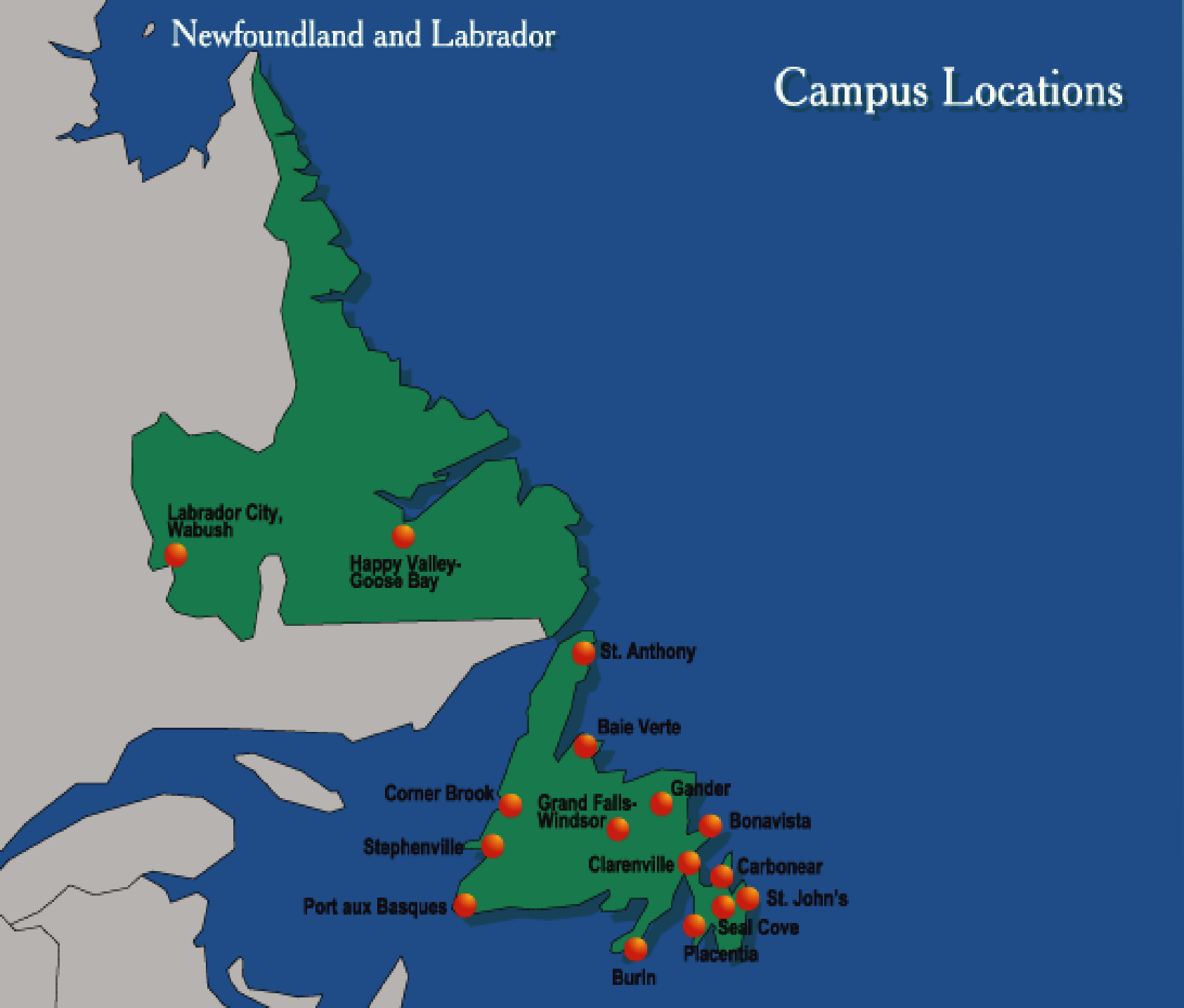
# About College of North Atlantic

- **One of the largest post secondary education & training institutions east of Montreal- -- 20,000 students & 1,600 staff plus Qatar Middle East Campus (3,000 students)**
- **State-of-the-art labs, equipment and skilled instructors**
- **Dedicated provincial broad band & videoconference network**
- **17 strategically located campuses and Centers of Excellence in Newfoundland and Labrador**

We're so much more.



# Campus Locations



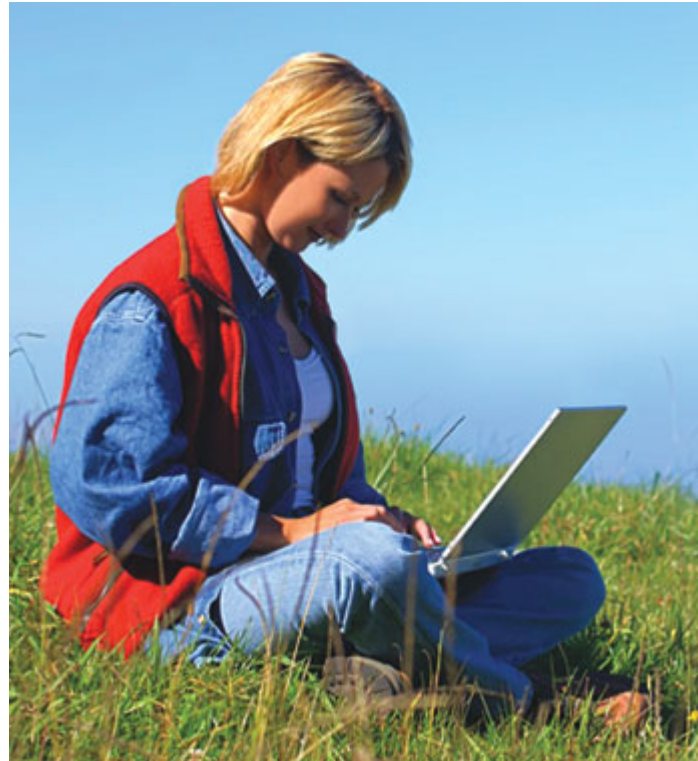
# What does the College have to offer industry?

We're so much more.



# 1. Technology Infrastructure

- **Connectivity for research, videoconferencing, and online learning**
- **Distributed Learning (on-line learning)**
  - **250 communities**
  - **3,200 learners**
  - **200 + courses**



We're so much more.



**COLLEGE  
OF THE  
NORTH  
ATLANTIC**

## 2. Centers of Excellence

- Mining technology
- Forestry and environmental technology/CEE
- Agriculture and agrifood production
- Petroleum engineering technology
- Non destructive welding testing centre
- Digital animation, film and video, graphic design
- Aviation engineering technology
- Community studies

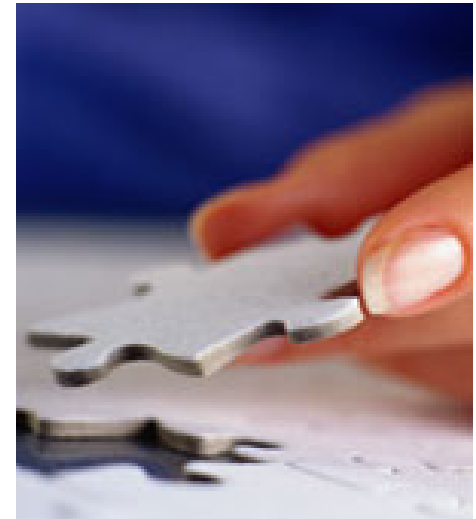
We're so much more.





# 3. Regular Academic Programs

- **Academic & Applied Arts**
- **Tourism & Natural Resources**
- **Engineering Technology**
- **Industrial Trades**
- **Business and IT**
- **Health Sciences**



We're so much more.

# 4. International Services

- **International Student Recruitment**
- **International Business Development**



We're so much more.

# 5. Office of Applied Research & Innovation

- **Product Development, Applied Research & Commercialization Projects**
- **E.G. Manufacturing Technology Centre, Agrifoods Business Development Centre, Wave Pump, other**



We're so much more.

# 6. Contract Training and Continuing Education Division

- Customized skills and workforce development training for private and public sectors
- Aftercare & Coaching
- Personal and professional development for the community
- In Class, On site, In Communities, On Line, Anytime



We're so much more.

# New Training Program Update

- Francis Gale (Atlantic Drilling and Blasting) identified need to Port aux Basques campus
- Research of provincial and national standards/regulations, e.g. CGWA, CGC
- Provincial industry focus group - June 14, 2007
- Curriculum Development based on Training Needs

We're so much more.



# New Training Program Update

**Result:**

**New Water Well Drilling &  
Geothermal Technician Training  
Programs**

We're so much more.



# New Training Programs Update

- Two Levels of Training Modules:
  - Two 15 week full-time daytime for “new entrants”
  - Individual modules for “existing industry employees”
- Ready Fall 2008 for initial offering
- Marketing produced limited results
- Feedback today and updates
- Target next offering – Fall 2009

We're so much more.



# New Training Program Update

- 15-week Water Well Drilling -- 12 weeks theory/3 weeks practical (10 modules)
- 15-week Geothermal Technician – 12 weeks theory/3 weeks practical (7 modules)
- CNA Certificate of Achievement plus acceptance by CGWA, CGC & Government
- First training programs of their kind in Atlantic Canada

We're so much more.





# Water Well Drilling Program

- Module 1 -- Introduction to Water Well Drilling (1 week)
- Module 2 -- Safety Issues - Water Well Drilling (2 weeks)
- Module 3 – Water Well Legislation (1 week)
- Module 4 -- Pump Systems (1 week)

We're so much more.



# Water Well Drilling Program

- Module 5 -- Introduction to Geothermal Heat Pump Systems & Loops (2 weeks)
- Module 6 – Drilling Systems and Tools (1 week)
- Module 7 -- Water Well Construction & Design (2 weeks)

# Water Well Drilling

- Module 8 – Hydraulic & Pneumatics Systems (1 week)
- Module 9 – Welding Procedures for Water Well Drilling (1 week)
- Module 10 - Drill Rig Operation & Maintenance (3 weeks)

# Geothermal Technician

- Module 1- Introduction to Geothermal Systems and Theory (1 week)
- Module 2 - Site and Building Evaluation (2 weeks)
- Module 3 – Heat Pump Selection (2 weeks)
- Module 4 – Configuring the Ground Heat Exchanger (4 weeks)

We're so much more.



# Geothermal Technician

- Module 5 - Introduction to Geothermal Heat Pump Systems & Heating Distribution (1 week)
- Module 6 - System Commissioning (1 week)
- Module 7 – Hands on Installations (1 week)

We're so much more.



# National Certifications Training

## **CGWA**

- Groundwater Drilling Technician
- Pump Technician

## **CGC**

- Residential System Installer
- Residential System Designer
- Drilling, Well Construction and Loop Installer

We're so much more.



# Programs Overview & Feedback

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# Your Feedback

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# Survey

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# Q & A

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# Contact information

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# Thank you



We're so much more.

