University of Alaska Fairbanks

College of Rural and Community Development

Interior – Aleutians Campus

Presents


Construction
Trades
Technology

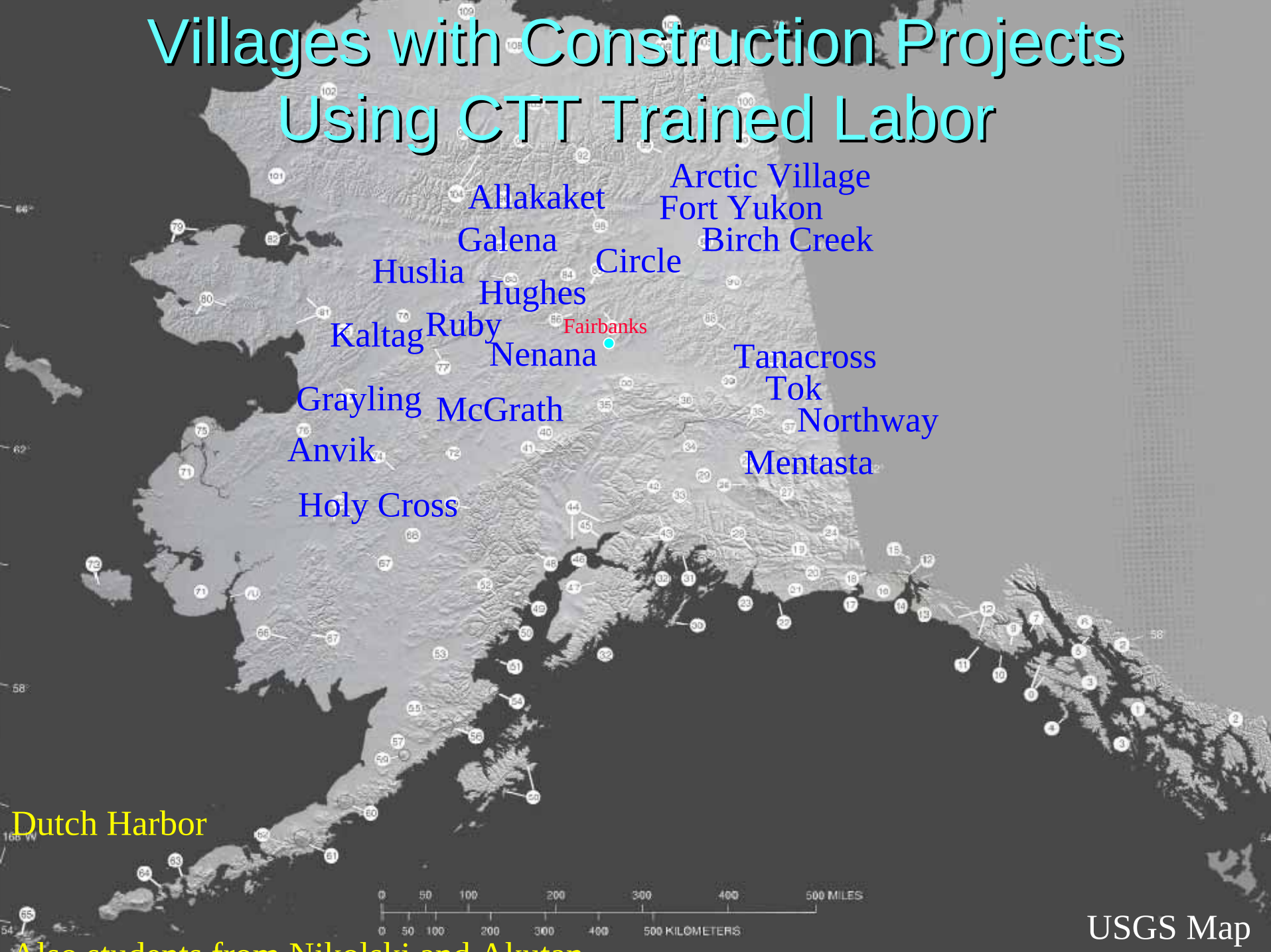
Why Develop a New Program?

- Overall Goal: Develop a Skilled Rural Workforce
- Increase Local Hire on Construction Projects
- Reduce “outside labor force”
- Improve Local Economy
- Connect to UAF Certificate and AAS Degree
- Deliver Training in the Villages

Partners

- Tanacross Village Council (TVC)
- Council of Athabascan Tribal Governments (CATG)
- Interior Regional Housing Authority (IRHA)
- Interior – Aleutians Campus (IAC)
- Village Traditional Councils
- Rural School Districts
- Aleutian Pribilof Island Association
- Aleutian Housing Authority

Villages with Construction Projects Using CTT Trained Labor



USGS Map

Also students from Nikolski and Akutan

Construction Trades Technology (CTT)

- CTT 100 Construction Core
  - Construction Safety
  - Hand and Power Tools
  - Blueprint Reading
  - Communications
  - Employability

Construction Trades Technology (CTT)

- CTT 110 Residential Carpentry Level One
  - Materials and Tools
  - Floor Systems
  - Wall Framing
  - Roof and Rafters
  - Exterior Doors and Windows
  - Concrete and Forms

Construction Trades Technology (CTT)

- CTT 115 Residential Carpentry Level II
  - Plans and Site Layout
  - Exterior Finish
  - Moisture Protection
  - Roofing Materials
  - Stairs and Interior Walls
  - Metal Stud Application
  - Complete Student Practicum: Work on a Project

Complete General Ed. Requirements for Certificate 38.5 UAF Credits

- Communications: Business English
- Human Relations: Leadership Skills
- Health: CPR and First Aid
- Student Practicum: Work on a Project
- Construction Math for Carpenters

Construction Trades Technology Associate Degree Courses

- CTT 170 Residential Electrical Level I

  Electrical Safety and Theory

  – Alternating Current, Testers, and NEC

  – Raceways, Boxes, Hand Bending

  – Conductors, Terminations, and Splices

Construction Trades Technology Associate Degree Courses

- CTT 175 Residential Electrical Level II
  - – Electrical Blueprint Reading, Wiring Devices
  - – Commercial & Residential Wiring
  - – Grounding
  - – Circuit Breakers, Fuses, & Electrical Service
  - – Lighting Fixtures & Related Components

Construction Trades Technology Associate Degree

- CTT 150 Plumbing Level I
  - Intro to Plumbing Tools and Drawings
  - Intro to Plumbing Mathematics
  - Plastic Pipe, Copper Pipe, and Fittings
  - Fixtures, Faucets, and Related Components

Construction Trades Technology Associate Degree

- CTT 155 Plumbing Level II

– Reading Commercial Drawings

– Intermediate Mathematics

– Installing/Testing DWV Piping

– Valves, Faucets and Fixtures – Installation and Testing

– Fuel Gas Systems

Student Practicum – Work on a Project

Construction Trades Technology Associate Degree 75 UAF Credits

- Complete 200 Level Courses
  - Communications
  - Human Relations
  - Construction Mathematics

Students Working On Projects

Student Comments

- “The instructor was very excellent in his teaching and presentation. All the students were involved.”
- “He had a lot of experience and he had his own way of explaining things to us knowing we would understand better.”
- “He was very clear and gave everyone a chance to give their comments on all issues that were discussed.”

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Student Comments

- “He has been caring and respectful and has a lot of experience to share.”
- “We’ve learned to be positive thinking around the workplace. Hopefully, we can build a better future.”
- “This type of program should have been started a long time ago, some people don’t like to leave their village.”

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Student Comments

- “I like the training in the village because it helps the Natives get better skills and better prepared for job opening in our villages. I would like to thank I-AC for a great program.”
- “I’m glad that I took this training. I would recommend that they have this type of training in all the villages.”

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Student Comments

- “We are proud to build a garage and learn how to be safe using power tools. What’s better is we are taking this training at home. Thanks to I-AC for this program.”
- “Thank you for the knowledge you have given us.”

Training Results

- Total Students in Program – 254
- First Time Students – 116
- Alaska Natives – 85%
- Age Ranges –18 to 50
- Largest Age Group – 18 to 24 – 65 students
- Program Hire Rates – 90% to 100%
- Overall Local Hire Rates – 70%

Student Earnings

Tanacross students	$173,917.00
Circle students	$ 7,144.68
Allakaket students	$ 90,020.44
Huslia students	$ 59,926.16
Ruby	$130,000.00
Kaltag	$120,000.00

- Total student earnings

$581,008.28

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Certificates Earned

- Thirty-three students completed the 38.5 credits required for the Construction Trades Technology Certificate.
- Seventeen plan to continue on to an Associate Degree
- Fifty-seven students admitted Fall 2006.
- Forty-five more enrolled in 2007.

“The old enemies were cold, war, and starvation. I could build tools to fight against them and they worked well. Today the new enemies are alcohol, drugs, and suicide. My old tools cannot help in the fight against these. We need new tools.”

Dr. Reverend David Salmon

Construction Trades Technology

Ma ha yah a hoot ne

A New Tool

Athabascan language assistance courtesy of Catherine Attla