



Alaska Construction Academies
Quarterly Progress Report
FY 2012

Please submit a quarterly progress report by the 15th of the month after each quarter. (Reports are due October 15, January 15, April 15 and July 15) Please submit your report electronically to: Kathleen Castle, Executive Director, Alaska Construction Academies at: Kathleen@alaskacef.org For additional information call Kathleen Castle at (907) 222-0999.

Name of Organization: Nome Construction Academy - NACTEC

Reporting Period: January 1st through March 31st, 2012

Please address the following items in your quarterly report.

1. In 2 or 3 sentences, please describe the scope of your project this quarter.

Two construction-training courses were offered this quarter. Shielded Metal Arc Welding was offered as a two-week intensive training in January. Heavy Equipment Training was offered in February-March as a two-week intensive. Two additional Career Exploration sessions introduced students to a wide array of vocational training programs, to include Careers in Welding and Heavy Equipment that students explored in the NACTEC construction-based simulator center. Three Driver Education courses were offered during this quarter. The ten students enrolled earned seven learner's permits and three driver's licenses.

2. Describe your project activities for this reporting period. (Describe the grant activities that happened during this report period. List special accomplishments achieved.)

A highlight of this session was the first Heavy Equipment Training program ever offered. Students logged training hours on an eight-machine heavy equipment simulator center with a digital training portfolio being developed for each student as they completed performance-based assessments on each of the machines. Additionally students were networked with prospective employers at the Department of Transportation, the Nome Airport, and with Nome Public Schools Maintenance. Students had the opportunity to get some drive time on a front wheel loader thanks to Nome's maintenance staff. We were pleased to host Larry Moore as he came in during this session to shoot footage of

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the Heavy Equipment students at work, interview a few people, and record footage of the CEF welding simulator in action during evening hours. We look forward to seeing the efforts in the Nome Regional Construction Academy in the updated AKCA video.

In addition to Heavy Equipment, a two-week Shielded Metal Arc Welding course was offered. This is the second of a sequence of three welding courses intended to provide upwards of 100 hours of training in Oxy-fuel, SMAW, and GMAW welding processes. During evening activities, and then again on weekends, our Caterpillar Heavy Equipment Simulator Center was open for all students to explore machine operation and careers in heavy equipment.

Juanita Kardell led an Instructor Certification Training Program at NACTEC during the week of March 12th and provided training for Bering Strait School District, NACTEC, and Kawerak, Inc. personnel. Unfortunately our anticipated participant numbers dropped as a neighboring school district with four participants enrolled in the training pulled out at the 11th hour. We are appreciative of Juanita's efforts in preparing folks of N.W. Alaska to lead NCCER construction-based training programs.

3. List scheduled project activities/important dates for next quarter. (Describe your planned activities and training for the next few months. Please include important dates like graduation, site visits, travel, job fairs, etc.)

During the 4th quarter a two-week Metal Fabrication course will introduce students to Gas Metal Arc Welding processes. Students will be working on completing a 16' aluminum boat and then fabricating a custom-made trailer for the boat. After this class concludes a one week Freshmen Transition's Camp will introduce incoming freshmen to plasma cutting, welding, and heavy equipment operation as several vocations of interest with this hands-on training program. After school concludes we will host our final training program of the year, a four-week long NCCER Core and NCCER Carpentry I session. Students will look to build a 8' x 12' cabin as their major project.

4. Briefly describe how each partner in your Construction Academy efforts worked together to accomplish your goals.

Kawerak, Inc sponsored Career Fairs took place in Unalakleet (Jan. 17th), White Mountain (Jan. 18th), Koyuk (Jan. 19th), and Shaktoolik (Jan. 20th). NACTEC Director, Doug Walrath, and staff member Nathan Pitt attended all career fairs and spoke to nearly all jr high and high school students about construction careers at all four schools. Kawerak,

Inc. has two staff members join NACTEC personnel each session for the Career Counseling Corps (CCC). Working together, the CCC assists students in developing post-secondary plans for training and workforce options. The Nome One Stop Job Center hosts students during each two-week session. Students enroll in ALEXsys as one element of this training and network with staff members that can assist students connecting to employment options in the future. NACTEC provides construction-based training in welding, carpentry, heavy equipment, and renewable energy for high school students. Three NACTEC staff members serve as CCC members, along with Kawerak personnel.

5. Please include photos as attachments and include with captions. Please do not include them in a word document. (If photos include pictures of minors, please maintain a copy of a photo release form for each image.)
See attached.

6. Please identify any problems or changes in your training program that will affect the budget, scope or timeline of the project. (Is your training on schedule? What are the reasons for any difficulties or delays? Have you had to change the initial scope?)

Appear to be on schedule. Based on enrollment in last quarter there may or may not be a NCCER Carpentry I course offered. It is dependent on enrollment. If the course isn't offered we would look to allocat some funds currently designated to *Contractual* over to *Supplies/Equipment*.

7. How do you evaluate the individuals being trained to ensure competency, skill level and understanding? (Testing, assessment, etc.)

Heavy Equipment Training Evaluation – Each of the simulators have between five and ten different modules. The quantity of operator errors can be defined for a novice through expert learner. Each module is Pass/Fail with immediate feedback to the student with the number and type of errors made during a training session. Student log-ins have been created so that each student's individual work history can be captured.

Welding courses have been set up for dual credit agreements through Northwest Campus of UAF in conjunction with faculty at Community and Technical College. Students are held to the standard expected for paper-based and performance-based measures.

8. Please provide the following information on each of your **adult** trainees:

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- Both sides of the application for each person accepted into your classes and workshops.
- A class list for each class. Include the name of the class, start and end dates and the first and last name for each student in the class.

N/A

STUDENT PROGRAMS: *Please list the classes you offered last quarter and include an estimate of the number of students in each class.*

110 students completed Career-focused training sessions this quarter. Five of those students were enrolled in a **Shielded Metal Arc Welding** course. Seven students participated in the **Heavy Equipment Training**. Ten students enrolled in **Driver's Education**. Thirty-five students were enrolled in **Career Exploration** courses. All 110 students received individual user ID's and introductory training for Caterpillar Heavy Equipment training.

9. Please identify areas that we can assist you in the future.

1) CARPENTRY- We have a large wood shop facility with ample storage space. The long-term vision would be to replicate the construction training occurring at the Pipeline Training Center (PLTC). For example, at the PLTC there are pallets/crates with all necessary supplies and equipment to teach NCCER courses such as Core, Carpentry I, Electricity, Plumbing, Weatherization, Drywall, etc. Having a list of necessities to successfully deliver each course would have our CA set for many successful training(s) in the future.

2) HEAVY EQUIPMENT TRAINING- We have listed our first heavy equipment training session on our Sessions Calendar in FY12. This training program had a simulator focus this year. Ideally transitioning students from simulator to real machine would be most useful. Our hope is to build the initial foundation of our heavy equipment-training program with a forklift certification. Equipment is needed to make this happen. Any assistance with this as we seeking funding through the State of Alaska Education Tax Credit programs with construction businesses that would like to seek an annual tax credit would be most helpful.