

Articulation Agreement

2018

University Alaska Fairbanks

Interior Alaska Campus

4180 Geist Road

Fairbanks, Alaska 99709

Iditarod Area School District

PO Box 90

McGrath Alaska 99627

Purpose:

In addition to the current Tech Prep Agreement between University of Alaska Fairbanks and Iditarod Area School District, we have agreed to add the following course that is within UAF Construction Trades Technology (CTT) Program:

1. Iditarod Area School District will follow a UAF CTT curriculum in coordination with the administration and faculty of the University of Alaska Fairbanks pertaining to the following courses on the course below.
2. Iditarod Area School District will teach for the attached outcomes.
3. The attached syllabus will follow the learning outcomes of the university-approved course listed.

UAF Course Number	UAF Course Title	Number of UAF Credits	Galena City School District Course Title
CTT 100	CORE	3 credits	CORE

1. The attached syllabus will be followed.
2. Iditarod Area School District provide necessary support for students to be successful in this course which may include computer support, reference books and academic assistance.
3. Interior Alaska Campus will process the registrations.
4. In order to receive concurrent credit, the student will register for the Tech Prep class during the semester in which the competencies will be completed.

Approvals:

Michael Hirt
Construction Trades Technology
Program Head
Interior Alaska Campus
University of Alaska Fairbanks

DocuSigned by:

F22248F4DE6F48D... December 10, 2018

Signature Date

Bryan Uher
Director
University of Alaska Fairbanks
Interior Alaska Campus
Fairbanks, Alaska

DocuSigned by:

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Signature Date

Christopher Matthew Shelborne
Principal
Iditarod Area School District
McGrath, Alaska

DocuSigned by:

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Signature Date


December 10, 2018 December 12, 2018

Kevin Illingworth
Acting Dean-College of Rural and
Community Development
P.O. Box 6500
University of Alaska Fairbanks
Fairbanks, AK 99775-6500

DocuSigned by:
 December 12, 2018
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Signature Date

Anupma Prakash,
Provost and Executive Vice Chancellor
P.O. Box 7580
University of Alaska Fairbanks
Fairbanks, AK 99775-7580



DocuSigned by:
 January 7, 2019
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Signature Date

CONSTRUCTION TECHNOLOGY CORE
COURSE OUTLINE

Course Title: **Construction Technology Core**
Course No: CTT 100
NCCER Module/s No.: 00101, 00103- 00105
Credits: 3 (53 contact hours) – 33 lecture & 20 lab
Prerequisites: None
Instructor: Christopher Matthew Shelborne
Location: McGrath, AK
Dates: 4/17-4/28/2019
Times: Monday-Friday
9:00am-3:30pm
Office: Office hours will be available on first day of class

COURSE DESCRIPTION:

This course introduces basic construction techniques using OSHA approved standards by stressing how to follow safe work practices and procedures, how to safely use hand and power tools, and how to extract information from construction drawings.

This course is divided into four (4) modules. Each module must be successfully passed. Generally, each module will have two (2) components. All will have a written portion including a final exam. Most modules will require hands-on demonstration of achieved competencies related to the module.

Basic Construction Safety

NCCER Module No.: 00101 –Basic Safety

Module Description:

This module introduces basic construction safety using OSHA approved standards by stressing how to follow safe work practices and procedures, proper inspection of safety equipment before use, and the proper use of safety equipment.

Learning Objectives:

Upon successful completion of the module, the participant will be able to:

1. Identify the responsibilities and personal characteristics of a professional craftsperson.
2. Explain the role that safety plays in the construction crafts.
3. Demonstrate the use and care of appropriate personal protective equipment.
4. Describe and demonstrate safe behavior on and around ladders and scaffolds.
5. Describe fire prevention and fire-fighting techniques around a construction site.
6. Explain the importance of the HazCom (Hazard Communication Standard) requirements and MSDSs (Material Safety Data Sheets)
7. Define safe work procedures around electrical hazards.

Performance Objectives:

Under the supervision of the instructor, the trainee should be able to:

1. Inspect personal protective equipment (PPE) to determine if it is safe to use
2. Properly don and remove personal protective equipment

Module Content:

1. The Craft Professional
2. Causes of Accidents on the Construction Site.
3. Company Safety Policies and OSHA Regulations.
4. Construction Site Job Hazards.
5. Working Safely with Job Hazards.
6. Personal Protective Equipment.
7. Aerial Work.
8. Hazard Communication Standards.
9. Fire Safety.
10. Electrical Safety.

Introduction to Hand and Power Tools

NCCER Modules No.: 00103-Introduction to Hand Tools
 00104-Introduction to Power Tools

Module Description:

These modules introduce basic hand and power tools used in construction and maintenance and stress the importance of their care and use. They provide valuable safety information for each type of tool discussed. Understanding proper usage helps trainees to prevent accidents. They, also, introduce some specialty tools used by different crafts.

Learning Objectives:

Upon completion of the modules, the participant will be able to:

1. Recognize and identify some of the basic hand tools used on the construction site.
2. Use these tools safely.
3. Describe and demonstrate the proper procedures for taking care of these tools.
4. Identify commonly used power tools of the construction and carpentry trade.
5. Demonstrate correct and safe use of the power tools.
6. Demonstrate proper maintenance of power tools.

Performance Objectives:

Under the supervision of the instructor, the trainee should be able to:

1. Visually inspect commonly used hand tools to determine if they are safe to use
2. Safely and properly use commonly used hand tools
3. Safely and properly operate an electric drill
4. Safely and properly operate a circular saw
5. Safely and properly operate a bench grinder
6. Safely and properly a portable belt sander
7. Safely and properly operate a pneumatically powered nailer (nail gun)

Module Content:

1. Hammers.

2. Screwdrivers.
3. Sledgehammers.
4. Ripping Bars and Nail Pullers.
5. Wrenches.
6. Pliers and Wire Cutters.
7. Levels, Squares, and Measuring Devices.
8. Vises and Clamps.
9. Files, Rasps, Chisels, and Punches.
10. Chain Falls, Come-alongs, Hoisting Devices.
11. Power Drills, Hand and Power Saws.
12. Grinders, Sanders, and Air Nailers.
13. Miscellaneous Power Tools.

Introduction to Blueprint Reading

NCCER Module No.: 00105-Introduction to Blueprint Reading

Module Description:

This module introduces basic blueprint terms, components, and symbols. It presents different types of construction drawings commonly used on job sites and describes why each type of drawing is important. This module covers standardized information contained on blueprints such as identification, revision status, symbols, project titles, dimension, and scale.

Learning Objectives:

Upon completion of the module, the participant will be able to:

1. Recognize and identify basic blueprint terms, components, and symbols.
2. Relate information on blueprints to actual locations on the print.
3. Recognize different classifications of drawings.
4. Interpret and use drawing dimensions.

Performance Objectives:

Under the supervision of the instructor, the trainee should be able to:

1. Extract requested information from a set of construction drawings

Module Content:

1. Introduction to Blueprints.
2. Components of the Blueprint.
3. Scale Drawings.
4. Lines of Construction.
5. Abbreviations, Symbols, and Keynotes.
6. Using Gridlines to Identify Locations.
7. Levels, Squares, and Measuring Devices.
8. Dimensions.
9. Layout of Common Structure

Method of Grading for Complete Course:

Pass/fail _____ Letter Grade X Other _____ (explain)

Grade will be based on the following:

- Attendance 20%
- Lab/Participation.....30%
- Examination40%
- Skill Mastery10%

Course Grading Requirements:

A letter grade will be issued for participants who successfully complete the course. Written tests will be given at the end of each section to test the knowledge of the participant.

- Letter grade criteria: 91 to 100% = A letter grade
- 81 to 90% = B letter grade
- 71 to 80% = C letter grade
- 60 to 70% = D letter grade
- Less than 59% = F letter grade

Facilities Required:

Classroom capable of seating 15 participants with comfortable chairs and work tables/desks, overhead projector/LCD projector, wipe boards, TV Monitor and VCR, marking pencils, and standard instructional equipment.

Lab Supplies Required:

Lab equipment will consist of various PPE, drawings, hand and power tools, and miscellaneous building materials and fasteners.

Textbook & Materials

NCCER Core Curriculum Published by Prentice Hall or equivalent
Course handout related to topics covered

Support Services

The University has many student support programs. If you need assistance please contact any of the following service programs or departments.

UAOnline

<http://uaonline.alaska.edu/>

Your resource for transcripts, accounts, and other personal information.

Rural Student Services

<http://www.uaf.edu/ruralss/>

Rural Student Services (RSS) is an academic advising department with over 35 years of experience in working with students from all over the state of Alaska. We are here to assist you in achieving student success by linking you to current information pertinent to your education, lifestyle, and goals. RSS is known for its welcoming and friendly environment. Many students find a meaningful connection at UAF through RSS.

We can help you with:

- * Academic Requirements
- * Registration for Classes
- * Finding Financial Aid
- * Explaining Housing Options
- * Declaring a Major
- * Career Exploration

CONTACT US AT:

P.O. Box 756320, Fairbanks, AK 99775-6320

1-888-478-1452 (Toll Free within Alaska) or (907) 474-7871

Email us at fyrss@uaf.edu

Math Help Line

Contact UAF's toll-free Math Hotline for problem solving and math help. Call 866-823-6284 (1-866-UAF-MATH) during regular fall and spring semesters.

Writing Center

<http://www.alaska.edu/english/studentresources/writing/>

The Writing Center is a student-staffed, student-oriented service of the English Department.

801 Gruening Bldg., P.O. Box 755720

Fairbanks, Alaska 99775-5720

Phone: (907) 474-5314

Fax: 1-800-478-5246

* The UAF Writing Center and Computer Lab offers free writing tutoring to any student in any subject via telephone and fax or over the Internet. Students can call 907-474-5314 for information on how to fax a paper and have it tutored over the telephone, or engage in an interactive Internet session. Both services are free.

Library Services for off campus students

<http://library.uaf.edu/offcampus>

Off-Campus Library Services is a unit set up to serve rural UAF students and faculty who do not have access to appropriate information resources in their town or village. We work in support of The College of Rural & Community Development and The Center for Distance Education and Independent Learning.

We can supply your information needs for the courses you are taking. For example, if a research paper is required in the teleconference or correspondence course that you are

taking, you can contact us, explain your information need, and we will send library materials to you so that you can write your paper.

Contact us at

Off-Campus Services, Elmer E. Rasmuson Library

310 Tanana Loop, PO Box 756800

Fairbanks, Alaska USA 99775-6800

Phone: 1-800-478-5348 Email: fyddl@uaf.edu

For more off campus help go to:

http://www.uaf.edu/library/instruction/ls101/other/Distance_Resources.html

Computer, Internet, and software

Problem: you cannot get your email

Make sure your Internet connection is working; to test it, you can try to go to a new web page and see if it loads.

- If you are having problems with a UAF account, you will need to contact the **UAF help desk 1.800.478.4667**. If it is another company's account, you will need to contact their customer support. There is very little we can do to assist you as we have no control or access to the computers that serve the email.
- Check with your email program's Help.

Problem: you forgot your password

- Only the organization that issued your password can do anything to change it. You will need to contact them. For UAF email and Blackboard it is the UAF help desk 1.800.478.4667. For most web services there is a link you can click if you forgot your password. I also recommend writing them down somewhere for back up.

Problem: you are having problems with Blackboard

- You will need to contact the Blackboard administrator, at:
<http://classes.uaf.edu/> Office of Information Technology Help Desk 474.6564 or 1.800.478.4667

Illuminate Live

If you have questions about Illuminate! Live I strongly encourage you to visit the following page:

<http://community.uaf.edu/ehelp> Steps needed to prepare you for your first distance education course session.

<http://distance.uaf.edu/archives/research/subresearch/illuminate-live.php>

There you will find

- a direct link to Elluminate! Server
- how to connect your headphone/microphone to your computer
- help finding and activating you UAF ID
- a printable quick reference guide

Disabilities Services

We will work with the Office of Disability Services to provide reasonable accommodation to students with disabilities. Disability Services provide a variety of services to assure equal access for all students. Interpreting services, educational assistants, note taking, and exam accommodations for students are the most frequently provided accommodations. Disability services also provides assistance to the university's rural campuses; Tanana Valley Campus, Bristol Bay, Chukchi, Interior-Aleutians, Kuskokwim, and Northwest.

The staff of Disability Services works with faculty in arranging appropriate services in the classroom. Questions should be directed to the Director of Disability Services at (907)-474-5655.

<http://www.uaf.edu/disability/>

UAF Office of Disability Services
612 N. Chandalar, PO Box 755590

University of Alaska Fairbanks
Fairbanks, Alaska 99775-5590

Phone: (907) 474-5655 | TTY: (907) 474-1827 | Fax: (907) 474-5688 | E-mail:
fydso@uaf.edu

A Division of Student and Enrollment Services (SES)

UAF is an affirmative action/equal opportunity employer and educational institution.

Every qualified student is welcome in my classroom. As needed, I am happy to work with you, disability services, veterans' services, rural student services, etc to find reasonable accommodations. Students at this university are protected against sexual harassment and discrimination (Title IX), and minors have additional protections. As required, if I notice or am informed of certain types of misconduct, then I am required to report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: www.uaf.edu/handbook/