Articulation Agreement
2018-2019

University Alaska Fairbanks
Kuskokwim Campus
201 Akiak Drive
Bethel, Alaska 99559

Lower Kuskokwim School District
1004 Ron Edwards Memorial Drive
Bethel, Alaska 99559

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

1. Lower Kuskokwim 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. Lower Kuskokwim School District will teach for the attached outcomes.
3. The attached syllabus will follow the learning outcomes of the university-
   approved course listed.

<table>
<thead>
<tr>
<th>UAF Course Number</th>
<th>UAF Course Title</th>
<th>Number of UAF Credits</th>
<th>Lower Kuskokwim School District Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTT F101</td>
<td>Basic Construction Safety</td>
<td>1 Credit</td>
<td>Basic Construction Safety</td>
</tr>
<tr>
<td>CTT F102</td>
<td>Introduction to Hand and Power Tools</td>
<td>1 Credit</td>
<td>Introduction to Hand and Power Tools</td>
</tr>
<tr>
<td>CTT F103</td>
<td>Introduction to Blueprint Reading</td>
<td>1 Credit</td>
<td>Introduction to Blueprint Reading</td>
</tr>
</tbody>
</table>

1. The attached syllabi will be followed.
2. Lower Kuskokwim School District will provide necessary support for students to
   be successful in these courses which may include computer support, reference
   books and academic assistance.
3. Kuskokwim 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
Program Head of CTT
University of Alaska Fairbanks
Fairbanks, AK 99775

Signature April 9, 2019

Dan Walker
Superintendent
Lower Kuskokwim School District
Bethel, AK 99559

Signature 4/8/19

Linda Curda
Acting Director of KuC
University of Alaska Fairbanks
Bethel, AK 99559

Signature April 9, 2019

Kevin Illingworth
Interim Dean of College of Rural Community Development
University of Alaska Fairbanks
Fairbanks, Alaska 99775

Signature April 10, 2019

Dr. Anupma Prakash
Provost and Executive Vice Chancellor
University of Alaska Fairbanks
Fairbanks, AK 99775

Signature April 11, 2019
CONSTRUCTION TECHNOLOGY CORE
COURSE SYLLABUS

Course Title: Basic Construction Safety
Course No: CTT F101
NCCER Module No.: 00101- Basic Safety
Credits: 1 (18 contact hours = 12 lecture & 6 lab)
Prerequisites: None
Instructor: James Ryan Ford
Instructor email: iford23@alaska.edu
Instructor Phone Number: (907) 223-1287
Location: Bethel, AK
Dates: May 6-9, 2019 M-Th
Times: 8:00am – 12:30 pm

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

Learning Objectives:
Upon successful completion of the course, 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

Course Content:
1. The Craft Professional
2. Causes of Accidents on the Construction Site.
4. Construction Site Job Hazards.
5. Working Safely with Job Hazards.
6. Personal Protective Equipment.
7. Aerial Work.
10. Electrical Safety.

**Course Evaluations:**
Pass/fail ______ Letter Grade ______ X ______ Other ________ (explain)
Grade will be based on the following:
- Attendance ......................... 20%
- Lab/Participation ................... 30%
- Examination ....................... 40%
- Skill Mastery ...................... 10%

**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 module 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 chair 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 drawings, hand and power tools, rigging equipment, and miscellaneous building materials.

**Textbook & Materials:** Required
*NCCER Core Curriculum* Published by Prentice Hall or equivalent
Module handouts related to topics covered. Provided

**Course Schedule by topic:**

<table>
<thead>
<tr>
<th>ONE</th>
<th>Review syllabus &amp; Introduction Module 00101</th>
<th>Read Section 1.0.0 &amp; 2.0.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWO</td>
<td>Accidents: Causes &amp; Results</td>
<td>Read Section 3.0.0</td>
</tr>
<tr>
<td>THREE</td>
<td>Construction Site Job Hazards</td>
<td>Read Section 4.0.0</td>
</tr>
<tr>
<td>FOUR</td>
<td>Working safely with Job Hazards</td>
<td>Read Section 5.0.0</td>
</tr>
<tr>
<td>FIVE</td>
<td>Personal Protective Equipment</td>
<td>Read Section 6.0.0</td>
</tr>
<tr>
<td>SIX</td>
<td>Lifting</td>
<td>Read Section 7.0.0</td>
</tr>
<tr>
<td>SEVEN</td>
<td>Aerial Work</td>
<td>Read Section 8.0.0</td>
</tr>
<tr>
<td>EIGHT</td>
<td>Hazard Communication Standard</td>
<td>Read Section 9.0.0</td>
</tr>
<tr>
<td>NINE</td>
<td>Fire Safety</td>
<td>Read Section 10.0.0</td>
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<tr>
<td>-------</td>
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</tr>
<tr>
<td>TEN</td>
<td>Electrical Safety</td>
<td></td>
</tr>
<tr>
<td>ELEVEN</td>
<td>Review Module 00101</td>
<td></td>
</tr>
<tr>
<td>TWELVE</td>
<td>Final Exam Module 00101</td>
<td></td>
</tr>
<tr>
<td>THIRTEEN</td>
<td>Competency Testing Module 00101</td>
<td></td>
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**Professional Conduct:**
The following ground rules apply to all students and are designed to ensure a classroom environment conducive to learning for all students:

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- If you come to class impaired by drugs or alcohol you will be asked to leave the class for the first offense, and your behavior will be documented. If a second offense occurs, you will be asked to leave the class immediately and your behavior will be referred to UAF Student Conduct for alleged policy violations. Additionally, you may be restricted from returning to class on an interim basis pending the outcome of the student conduct process. Students found responsible for policy violations may be removed from the course.

Students who engage in disruptive classroom behavior will be asked to leave the classroom for the first offense, and the behavior will be documented. If the disruptive behavior continues, it will be reported to UAF Student Conduct.

- Disruptive behavior includes, but is not limited to, arriving late to class without explanation; leaving class early without explanation; sleeping in class; use of cell phone during instruction except for emergency purposes; being under the influence of drugs or alcohol; harassment, bullying, and verbal or physical threats to another student or to the instructor.

**Student Protections and Services Statement:**
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 to the following site: [www.uaf.edu/handbook/](http://www.uaf.edu/handbook/).

**AA/EO Statement:**
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: [Alaska.edu/nondiscrimination](http://Alaska.edu/nondiscrimination)
CONSTRUCTION TECHNOLOGY CORE
COURSE SYLLABUS

Course Title: Introduction to Hand and Power Tools
Course No; CTT F 102
NCCER Module/s No.: 00103- Introduction to Hand Tools
00104- Introduction to Power Tools
Credits: 1 (20 contact hours) 7 lecture & 13 lab
Prerequisites: CTT F 101 or instructor approval
Instructor: James Ryan Ford
Instructor email: jford23@alaska.edu
Instructor Phone number: (907)223-1287
Location: Bethel, AK
Dates: May 6-10, 2019 M-F
Times: M- w 1:pm – 6pm, Th 1:pm -5:pm, Fri 8:am – 9:am

Course Description:
This course introduces basic hand and power tools used in construction and maintenance and stress the importance of their care and use. It provides valuable safety information for each type of tool discussed. Understanding proper usage helps trainees to prevent accidents. It also, introduces some specialty tools used by different crafts.

Learning Objectives:
Upon completion of the course, 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)

Course Content:
1. Hammers.
2. Screwdrivers.
4. Ripping Bars and Nail Pullers.
5. Wrenches.
6. Pliers and Wire Cutters.
8. Vises and Clamps.
12. Grinders, Sanders, and Air Nailer.

**Course Evaluation:**
Pass/fail ______ Letter Grade ______ X ______ Other ________ (explain)
Grade will be based on the following:
- Attendance ...................... 20%
- Lab/Participation ............... 30%
- Examination .................... 40%
- Skill Mastery .................... 10%

**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 drawings, hand and power tools, rigging equipment, and miscellaneous building materials.

**Textbook & Materials Required**
*NCCER Core Curriculum* Published by Prentice Hall or equivalent
Course handout related to topics covered provided.

**Course Schedule by Topic**

<p>| ONE | Review syllabus &amp; Introduction | Module 00103 | Read Section 2.0.0 Pg. 3-1 |</p>
<table>
<thead>
<tr>
<th>TWO</th>
<th>Hammers</th>
<th>Read Section 3.0.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>THREE</td>
<td>Screwdrivers</td>
<td>Read Section 4.0.0</td>
</tr>
<tr>
<td>FOUR</td>
<td>Sledgehammers</td>
<td>Read Section 5.0.0</td>
</tr>
<tr>
<td>FIVE</td>
<td>Ripping Bars &amp; Nail Pullers</td>
<td>Read Section 6.0.0</td>
</tr>
<tr>
<td>SIX</td>
<td>Wrenches</td>
<td>Read Section 7.0.0</td>
</tr>
<tr>
<td>SEVEN</td>
<td>Pliers &amp; Wire Cutters</td>
<td>Read Section 8.0.0</td>
</tr>
<tr>
<td>EIGHT</td>
<td>Levels</td>
<td>Read Section 9.0.0</td>
</tr>
<tr>
<td>NINE</td>
<td>Squares</td>
<td>Read Section 10.0.0</td>
</tr>
<tr>
<td>TEN</td>
<td>Rulers &amp; Other Measuring Tools</td>
<td>Read Section 11.0.0</td>
</tr>
<tr>
<td>ELEVEN</td>
<td>Bench Vises</td>
<td>Read Section 12.0.0</td>
</tr>
<tr>
<td>TWELVE</td>
<td>Clamps</td>
<td>Read Section 13.0.0</td>
</tr>
<tr>
<td>THIRTEEN</td>
<td>Saws</td>
<td>Read Section 14.0.0</td>
</tr>
<tr>
<td>FOURTEEN</td>
<td>Files &amp; Rasps</td>
<td>Read Section 15.0.0</td>
</tr>
<tr>
<td>FIFTEEN</td>
<td>Chisels &amp; Punches</td>
<td>Read Section 16.0.0</td>
</tr>
<tr>
<td>SIXTEEN</td>
<td>Plumb Bobs</td>
<td>Read Section 17.0.0</td>
</tr>
<tr>
<td>SEVENTEEN</td>
<td>Sockets &amp; Ratchets</td>
<td>Read Section 18.0.0</td>
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<tr>
<td>EIGHTEEN</td>
<td>Torque Wrenches</td>
<td>Read Section 19.0.0</td>
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<tr>
<td>NINETEEN</td>
<td>Wedges</td>
<td>Read Section 20.0.0</td>
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<td>TWENTY</td>
<td>Chalk Lines</td>
<td>Read Section 21.0.0</td>
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<td>TWENTY-ONE</td>
<td>Utility Knives</td>
<td>Read Section 22.0.0</td>
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<tr>
<td>TWENTY-TWO</td>
<td>Chain Falls &amp; Come-alongs</td>
<td>Read Section 23.0.0</td>
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<tr>
<td>TWENTY-THREE</td>
<td>Wire Brushes</td>
<td>Read Section 24.0.0</td>
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<tr>
<td>TWENTY-FOUR</td>
<td>Shovels</td>
<td>Review Module 00103</td>
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<tr>
<td>TWENTY-FIVE</td>
<td>Final Exam Module 00103</td>
<td></td>
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<tr>
<td>TWENTY-SIX</td>
<td>Introduction Module 00104</td>
<td>Read Section 1.0.0</td>
</tr>
<tr>
<td>TWENTY-SEVEN</td>
<td>Power Drills</td>
<td>Read Section 3.0.0</td>
</tr>
<tr>
<td>TWENTY-EIGHT</td>
<td>Saws</td>
<td>Read Section 4.0.0</td>
</tr>
<tr>
<td>TWENTY-NINE</td>
<td>Grinders &amp; Sanders</td>
<td>Read Section 5.0.0</td>
</tr>
<tr>
<td>THIRTY</td>
<td>Miscellaneous Power Tools</td>
<td>Review Module 00104</td>
</tr>
<tr>
<td>THIRTY-ONE</td>
<td>Final Exam Module 00104</td>
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</tr>
<tr>
<td>THIRTY-TWO</td>
<td>Competency Testing Module 00103 &amp; 00104</td>
<td></td>
</tr>
</tbody>
</table>

**Course Policies:**
Students are expected to arrive ready to participate actively in discussion of drywall applications and activities. Attendance is a critical component of this course and students must be on time and prepared for the course material.

**Support Services:**
The instructor is available upon appointment for additional assistance outside normal session/class hours.
Professional Conduct:
The following ground rules apply to all students and are designed to ensure a classroom environment conducive to learning for all students:

- Come to class awake, sober and alert. The use of alcohol, drugs or tobacco products is not allowed in the classroom. Do not attend class with the smell of or under the influence of drugs or alcohol.
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CONSTRUCTION TECHNOLOGY CORE

COURSE SYLLABUS

Course Title: Introduction to Blueprint Reading
Course No: CTT F103
NCCER Module No.: 00105- Introduction to Blueprint Reading
Credits: 1 (15 contact hours) 14 lecture & 1 lab
Prerequisites: CTT F102 or instructor approval
Instructor: James Ryan Ford
Instructor email: jford23@alaska.edu
Instructor phone number: (907)223-1287
Location: Bethel AK,
Dates: May 9-11, 2019 Thur- Sat
Times: Thur; 5pm- 6pm: Fri 9am – 12:30pm & 1pm – 5:30pm; Sat: 8:am – 12:30 pm & 1pm – 3:30pm

Course Description:
This course 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 course 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

Course Content:

2. Introduction to Blueprints.
3. Components of the Blueprint.
4. Scale Drawings.
5. Lines of Construction.
6. Abbreviations, Symbols, and Keynotes.
7. Using Gridlines to Identify Locations.
10. Layout of Common Structure

Course Evaluations:

Pass/fail _______ Letter Grade ___ X ___ Other _________ (explain)

Grade will be based on the following:

- Attendance ......................... 20%
- Lab/Participation.....................30%
- Examination .........................40%
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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.

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Facilities Required:
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Textbook & Materials

NCCER Core Curriculum Published by Prentice Hall or equivalent

Course handout related to topics covered

Topic Schedule:

<table>
<thead>
<tr>
<th>ONE</th>
<th>Review syllabus &amp; Introduction Module 00105</th>
<th>Read Section 1.0.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWO</td>
<td>Introduction</td>
<td>Read Section 2.0.0</td>
</tr>
<tr>
<td>THREE</td>
<td>Components of the Blueprint</td>
<td>Read Section 3.0.0</td>
</tr>
<tr>
<td>FOUR</td>
<td>Scale</td>
<td>Read Section 4.0.0</td>
</tr>
<tr>
<td>FIVE</td>
<td>Lines of Construction</td>
<td>Read Section 5.0.0</td>
</tr>
<tr>
<td>SIX</td>
<td>Abbreviations, Symbols, &amp; Keynotes</td>
<td>Read Section 6.0.0</td>
</tr>
<tr>
<td>SEVEN</td>
<td>Using Gridlines to Identify Plan Locations</td>
<td>Read Section 7.0.0</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------------</td>
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</tr>
<tr>
<td>EIGHT</td>
<td>Dimensions</td>
<td>Review Module 00105</td>
</tr>
<tr>
<td>NINE</td>
<td><strong>Final Exam Module 00105</strong></td>
<td></td>
</tr>
<tr>
<td>TEN</td>
<td><strong>Competency Testing Module 00105</strong></td>
<td></td>
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