Memorandum of Agreement
Between
University of Alaska Fairbanks (UAF)
And
Matanuska-Susitna Borough School District (Mat-SU)
Tech Prep Agreement
Fall 2006

University of Alaska Fairbanks
Interior Aleutians Campus
Construction Trades Technology
101 Harper Building
PO Box 756720
Fairbanks, Alaska 99775-6720

Matanuska-Susitna Borough School District
501 North Gulkana
Palmer, AK 999645

Purpose:

In addition to the general Tech Prep Agreement between UAF and Mat-Su, we have agreed to the following processes and criteria with respect to the program of Construction Trades Technology.

1. Mat-Su will follow a curriculum coordinated with the administration and faculty of the University of Alaska Fairbanks pertaining to the following courses:

<table>
<thead>
<tr>
<th>UAF Program</th>
<th>UAF Course Title</th>
<th>UAF Credit</th>
<th>Mat-Su Borough School District Course Title</th>
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</thead>
<tbody>
<tr>
<td>Construction Trades Technology</td>
<td>Core</td>
<td>5</td>
<td>Construction Trades Part I</td>
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</tbody>
</table>

2. Mat-Su will teach for the attached outcomes.

3. The attached syllabus will be followed.

4. NCCER Student Records will be submitted to Jerry Trainor along with student grades.
FOR UAF
Jerry Trainor
Interior Aleutians Campus
Construction Trades
Technology Coordinator
University of Alaska Fairbanks

Signature 9/29/06

Clara Johnson
Director
Interior Aleutians Campus
University of Alaska Fairbanks

Signature 9/29/06

Bernice Joseph
Executive Dean
College of Rural & Community Dev.
University of Alaska Fairbanks

Signature

Paul Reichardt
Provost
University of Alaska Fairbanks

Signature 9/29/06

FOR MAT-SU
Robert Doyle
Chief School Administrator

Signature

Kristen Forrester, Director
Career and Technical Education

Signature 6/29/06

Kenneth G. Rezendes
Construction Trades Teacher

Signature

Jason Lyon
Construction Trades Teacher

Signature 6/29/06

Cc: Student Services Interior-Aleutians Campus, UAF Admissions, School District Administration
**Course Name:** Construction Trades Part 1

**Prerequisite Course(s):** Algebra 1 or Integrated Math 1 or Concurrent Enrollment

**Suggested Courses:** Intro to Construction or Cabinet Making and Woods 1 or Technical Drafting

**High School Credit =** 2—1 per (Postsecondary )

**Pathway (Optional):** Industrial & Engineering

**Content and Performance Standards are coded to Alaska Standards for Alaska Students, Revised June 2005, Alaska Department of Education and Early Development, **http://www.eed.state.ak.us/standards/pdf/standards.pdf**

**SkillsUSA** http://www.skillsusa.org

**Career Cluster Area:** Architecture & Construction

**National Center for Construction Education and Research (NCCER)** http://www.nccer.org

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**District # 9101/9102** CIP #: 4602011

**Course Description:** Construction Trades—Part 1 introduces the concepts of residential construction by providing hands-on training to students who will learn about safety, hand power tools, and materials. Students will build footings, frame walls, and apply siding, roofing, and trim. All of the work is done “in the field” on a job site of a marketable residential home.

**Content Headings/Topics**
- Personal Safety and Job-Site Conditions
- Hand and Power Tool Safety
- Identification, Use and Care of Tools
- Construction Materials—Identification and Use
- Blueprint Reading and Construction Math
- Excavation and Site Work
- Footings and Foundations
- Framing Concepts—Floors, Walls, Roofs
- Exterior Finish—Siding, Roofing, Trim
- Stairway Construction
- Encourage Career and Technical Student Organization (CTSO) Involvement

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**Performance Standards (Learner Outcomes)**

|---------------------------------------|-------------------------------------------------------------|--------------------------|--------------------------------|--------------------------|------------------------|-------------|

Form #05 025 (b)  Rev. 2/24/03  Ind - 13  MSBSD/Architecture & Construction
# Performance Standards (Learner Outcomes)

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<tbody>
<tr>
<td>Identify and practice carpentry safety standards.</td>
<td>NCCER—CORE Basic Safety (00101) SkillsUSA/VICA—Technical Standards Book p. 41 (Occupational Health &amp; Safety)</td>
<td>R4.6, R4.9</td>
<td>HL1-3, TE2</td>
<td>A6, 7</td>
<td>C3</td>
<td>Hlth/Safety Wk Habits</td>
</tr>
<tr>
<td>Apply a variety of math strategies and skills to solve carpentry problems.</td>
<td>NCCER—CORE Intro to Construction Math (00102)</td>
<td>MA1.4.1, ME1.2, MA2.4.1-4, MA3.4.1-6, MA5.4.1-3, MB1.4.1-3, MC1.4.1-3, MD1.4.1, R4.6, SB.1</td>
<td>MA1-6, MB1-8, MC1-2, MD1-5, ME1-3, GovG6</td>
<td>A2, 4</td>
<td></td>
<td>Tech/Prod Planning Mgmt Finance</td>
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<td>Develop and model employability skills.</td>
<td>SkillsUSA—Technical Standards Book p. 37 (Job Interview)</td>
<td></td>
<td></td>
<td>A1-7, B1-5</td>
<td>Wk Habits Labor Tech/Prod</td>
<td>SkillsUSA Job Interview</td>
</tr>
<tr>
<td>Demonstrate and develop effective communication skills.</td>
<td>Skills USA—Technical Standards Book p. 35 &amp; 59 (Speech)</td>
<td>MC1.4.1-3, W4.1-3, 5-6, R4.1-6, 9-11</td>
<td>LAA1-8, LAB1-3, LAC1-5, LAD1-4, HLC1-6, AB6, TB1-3, TA1-5, TD1-3, TE1-8</td>
<td>A2</td>
<td>A3, E6, 7 LAE4</td>
<td>Tech/Prod Wk Habits Community Planning</td>
</tr>
<tr>
<td>Recognize and demonstrate technical knowledge of building materials (i.e. wood building materials, fasteners, and adhesives).</td>
<td>NCCER—Wood Building Materials (27102)</td>
<td>MA1.4.1, 7, MA2.4.1, 4, MA3.4.1,</td>
<td>SA15, GovG3, TE1</td>
<td>A6</td>
<td></td>
<td>Tech/Prod Hlth/Safety</td>
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<td>Demonstrate proper use and maintenance of carpenters' tools and equipment.</td>
<td>NCCER—CORE Intro to Hand Tools (00103) CORE Intro to Power Tools (00104) module 27103 SkillsUSA—Technical Standards Book p. 149 (Carpentry)</td>
<td>MA2.4.1-4, R.4.4, 6, SB2</td>
<td>TA1-5</td>
<td>A6</td>
<td></td>
<td>Tech/Prod Hlth/Safety Labor Prin Tech</td>
</tr>
<tr>
<td>Demonstrate industry standard practices for various carpentry processes (i.e. floor systems, wall and ceiling framing, roof framing, and windows/doors).</td>
<td>NCCER—Carpentry Modules 27104-27107 SkillsUSA—Technical Standards Book p. 149 (Carpentry)</td>
<td>MA1.4.1-7, MA2.4.1-4, MA3.4.1, MA4.4.2, MA5.4.6-7, R.4.4, R4.5a-b, R4.9, 11, SA.4, SB2,3</td>
<td>SA2, 4, 7, 15, SB2, GA1, GC1-3, GE1-6, GF2, TC1-3</td>
<td></td>
<td>A6</td>
<td>A2, D5</td>
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<td>Demonstrate knowledge of building codes and regulations related to the carpentry trade.</td>
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<tr>
<td>Explore and analyze carpentry career opportunities.</td>
<td>NCCER—Orientation to the Trade (27101) ASVAB SkillsUSA—Technical Standards Book p. 107 Total Quality Management</td>
<td>ME1.4.1, ME1.42, R4.4-6, 11, W4.3</td>
<td>GB6, GovF6, 7, TE5</td>
<td></td>
<td>A5, 7, B1-5</td>
<td>Planning Wk Habits Prin Tech Prin Tech Labor Hlth/Safety</td>
</tr>
</tbody>
</table>

Recommended Resources: (websites, textbooks, essential equipment, reference materials, supplies)
Construction Trades Part 1

June 2006


Occupational Safety and Health Administration (OSHA), US Department of Labor, [www.osha.gov/](http://www.osha.gov/)

American Design Drafting Association (ADDA), [www.adda.org](http://www.adda.org), [national@adda.org](mailto:national@adda.org)


All Aspects of Industry [http://www.ia.org/iwe/Resources/All_Aspects.doc](http://www.ia.org/iwe/Resources/All_Aspects.doc)
SUMMARY OF CAREER AND QUALIFICATIONS:

1989 – Present  Employed by the Matanuska-Susitna Borough School District as an instructor for the Mat-Su Construction Trades Program, the Career & Technical Education House Building project.

1978 – Present  Self-employed general contractor, residential construction specializing in Victorian and Colonial homes; fancy stairways (spirals and geometric), unusual and ornate carpentry.

Hired by other construction firms and journeymen as an advisor to teach and advise or troubleshoot unusual or complicated carpentry projects.


1988 – 1991  Instructed woodworking at the Matanuska-Susitna College for four years and home building for one year.

1990  Construction supervisor for Alaska Craftsman Home Program’s model home on the State Fair Grounds.


1969 – 1972  Employed by Pearson Yachts, Portsmouth, RJ. Foreman, construction of sailing yachts to 44 feet, worked on prototype hulls with naval architects, construction of yacht interiors involving steam and laminate bending of lumber and most demanding types of wood joinery.


1962  Graduated high school at Westport, MA (honor roll student).

REFERENCES:  Available upon request.
Objective

To obtain a vocational teaching position at the secondary/post-secondary level in order to provide students the opportunity to acquire the necessary knowledge, skills and techniques needed for vocational employment.

Education

University of Alaska Anchorage, Anchorage, Alaska
Master of Education: Educational Leadership
Presently Enrolled

Eastern Washington University, Cheney, Washington
Bachelor of Science: Technology Education
December 1994
Wood/Construction and Metal Technology emphasis

Teaching Experience

Construction Trades Instructor, Matanuska-Susitna School District
2002-Present

- Provide technical and academic instruction to students by building a marketable residential dwelling.
- Introduce students to all aspects of construction in a real world setting.
- Utilize the SkillsUSA program to help assess students via competition in their technical area.
- Develop and maintain curriculum for the construction trades class that meets local, state and national standards.

Vocational Technology Teacher, Bristol Bay Borough School District
1996-2002

- Organized and manage both wood and metal shop facilities.
- Developed curriculum for the following vocational classes: Cabinet-making, Construction, Drafting, Metals I & II, and Woods I & II.
- Established a SkillsUSA - VICA program for grades 9-12.
- Instructed students from multi-ethnic backgrounds.
- Developed and maintained a Construction program that provided students with real-life building projects designed to meet common UBC codes.

Post-Secondary Instructor
1997-2000

- Developed and instructed a 1-2 credit Cabinet-Making course for UAF in the Naknek area.
- Developed, organized and instructed an eight-hour apprenticeship program for Sundance Construction. The primary focus was to provide classroom training on safety, materials and basic floor, wall, and roof framing techniques commonly used in the Construction industry.
Other Experience

Contractor and Cabinet Maker 2000-Present
- Owner of Jason’s Creations and Fine Woodworking, specialty contractor for custom kitchens and remodels

Carpenter and Cabinet Maker, Newport, Washington 1994-1996
- Worked as a self-employed contractor building and remodeling residential homes.
- Designed and built custom cabinets.
- Prior to 1994, I worked during the summers and vacations for a general contractor building and remodeling residential homes.

References (Available Upon Request)
National Center for Construction Education and Research

Ken Rezende

Core Curricula Instructor

has fulfilled the requirements to serve as a
CCER's standardized training curriculum
in the Tuenth, day of June, 2003

Quill Hart
President
National Center for Construction Education and Research

This is to certify that

Jason Lyon

has fulfilled the requirements to serve as a

Core Curricula Instructor

in the NCCER's standardized training curriculum
this Sixth day of December, 2005

Donald E. Whyte
President