

DISTRICT NAME:

CTE Course Description and Standards Crosswalk Template

Course Information	
Course Name	Construction Manufacturing Metals
Course Number	II920
Number of High School Credits	.5
Career Cluster	Architecture and Construction
Pathway (as defined under the Career Cluster)	Construction
Occupational Standards Information	
Source of Occupational Standards	NCCER
Names/Numbers of Occupational Standards	Basic Safety – 09 Introduction to power tools- 09
Date or Version Number of Occupational Standards	4 th Edition, 2009
Registration Information	
Course Description (brief paragraph – as shown in your student handbook or course list)	The Construction Manufacturing Metals class is an “After School Construction Academy” class that meets approximately twice a week, four hours per day for approximately 17 days. This class will give the student a beginning level of exposure to oxy-acetylene welding and cutting operations, arc welding, and project construction. The class is designed to give the student an exploratory view of the Metal Production / Manufacturing Industry. The hands-on approach will also cover safety and hand power tool operations. The NCCER “Basic Safety” Core will be taught in this class.
Instructional Topic Headings (please separate each heading by a comma)	Safety and health, Tools and equipment, Blue print reading, Layout, Metallurgy, Oxy-Acetylene processes, Shielded metal arc processes, Fabrication manufacturing, Welding careers
Program of Study and Sequence Information	
If course is part of a CTE Sequence, name of Sequence	Construction
If course is part of a CTE Program of Study (CTEPS), name of CTEPS	Construction Management
If course applies to more than one Sequence or CTEPS, please name the additional Sequences or CTEPS, separated by commas.	
Career & Technical Student Organizations (CTSO) Information	

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Which specific CTSO does this course support?		SkillsUSA
Tech Prep Information		
Current Tech Prep Articulation Agreement? (Y/N)	N	
Date of Current Agreement		
Postsecondary Institution Name		
Postsecondary Course Name		
Postsecondary Course Number		
# of Postsecondary Credits		

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Additional CTE Course Information

Author	
Course developed by	Kenai Curriculum Committee
Course adapted from	Previous curriculum
Date of Last Course Revision	2011
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	N
Technical Assessment(s)	
Name of Technical Assessment used in course	Basic Safety
Assessment Vendor	NCCER
Certificate, Credential, or License	
Industry-recognized skill certificate, credential, or state license that a student is eligible for upon successful completion of the course?	Certificate-Basic Safety Module 00101-04
Issuing body/organization/agency	NCCER

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standards	Alaska Reading, Writing, Math, Science 4th Ed. PSGLE's	Alaska Employability Standards	Alaska Cultural Standards	All Aspects of Industry	Formative Assessment
1. Demonstrate safe shop procedures in all welding techniques.	AWS 1.21		A6	C3	Health / Safety	Pre / Post Test
2. Identify and properly use welding tools and equipment for each welding process.	AWS-AD 1.5.34	R3.4	A2	B4	Health / Safety	Pre / Post Test
3. Utilize measurements and measuring devices.	AWS-AD 1.6.4	MA2.3.4	A2		Technical	Pre / Post Test
4. Understand, identify, and interpret shop drawings.	AWS-EX	R3.6			Technical	Pre / Post Test

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	1.1.7d					
5. Identify metal properties and the metallurgy of a weld bead.	AWS-AD 1.8a				Technical	Pre / Post Test
6. Evaluate and discuss possible welding careers.			A4	B2	Technical	Class Discussion
7. Demonstrate the shielded metal arc welding process.	AWS-AD 1.10.1d		B2 B3 B4 B5		Technical	Lab Assignment

Add extra rows as necessary by using the Tab key.

List of Major Instructional Resources: (websites, textbooks, essential equipment, reference materials, supplies)

Resources:

NCCER, 2009 Core Curriculum
 NCCER Basic Safety module 09
 NCCER Introduction to Power Tools 09
 Welding Technology fundamentals 2010