CTE Course Description and Standards Crosswalk

	Course Information					
Course Name	Welding I					
Course Number	II775					
Number of High School Credits	.5					
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	A & C, Manufacturing and Transportation					
Date of district Course Revision	November 2013					
Caree	r & Technical Student Organization (CTSO)					
CTSO embedded in this sequence						
	Occupational Standards					
Source of Occupational Standards	American Welding Society (AWS)					
Names/Numbers of Occupational Standards	Certified Welder – AWS					
	Registration Information					
Course Description (brief paragraph – as shown in your student handbook or course list)	Welding 1 will give the student a beginning level of exposure to oxy-acetylene welding, GMAW, SMAW and cutting operations, grinding operations and arc welding. At the end of this course students will be basic in flat, butt, fillet and outside corner. Safe equipment use and processes will be covered.					
Instructional Topic Headings (please separate each heading by a semi-colon)	Safety and health, Tools and equipment, Metallurgy, Oxy-Acetylene processes, Shielded metal arc processes, Fabrication manufacturing, Welding careers.					
S	ummative Assessments and Standards					
Technical Skills Assessment (TSA)	N					
Course addresses:						
New Alaska ELA and Math Standards	Y					
Alaska Cultural Standards	Y					
All Aspects of Industry (AAI)	Y					

Core Technical Standards	Υ				
Employability Standards	Υ				
Employability Standards					
Source of Employability Standards	State of Alaska				
Tech Prep					
Current Tech Prep Articulation Agreement? (Y/N)	N				
Date of Current Agreement					
Postsecondary Institution Name					
Postsecondary Course Name					
Postsecondary Course Number					
# of Postsecondary Credits					

Additional CTE Course Information

Author						
Course developed by	KPBSD					
Course adapted from	Previous Version					
Date of previous course revision	Nov. 2013					
Course Delivery Model						
Is the course brokered through another institution or agency? (Y/N)	No					

Standards Alignment

Student Performance Standards		_						
(Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Readiness	All Aspects of Industry/ Systems	Assessment

Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
AWS 1.21	MN-3 MN-HSE-1-3 MN-PRO-2	R.1.9-12 R.2.9-12 R.3.9-12 R.4.9-12		C3	A6	HSE PWH	Pre / Post Test
AWS-AD 1.5.34	MN-6 MN-1	R.1.9-12 R.2.9-12 R.3.9-12 R.4.9-12 R.9.9-12	M2.4.1-4		A2	HSE TP	Pre / Post Test
AWS-AD 1.6.4	MN-6 MN-PPD-1	R.3.9-12	M2.4.1, 2.4.3	E3	A2	ТР	Pre / Post Test
AWS-EX 1.1.7d	MN-PPD-2 MN-PPD-1	R.2.9-12	M7.4.1		A2	TP	Pre / Post Test
AWS-AD 1.8a	MN-6MN- MIR-1 MN-PPD-1	R.4.9-12 W.2b.9-12		B4		ТР	Pre / Post Test
	MN-4 MN-1 MN-MIR-1	W.8.9-12 W.9.9-12 R.2.9-12 R.1.9-12	M.10.4.2	A7	A4	TP L F	Class Discussion/ industry expert
AWS-AD 1.10.1d	MN-6 MN-MIR-1 MN-PPD-1	R.1.9-12 R.2.9-12 R.3.9-12 R.4.9-12		B4	B2 B3 B4 B5	TP	Lab Assignment
	AWS-AD 1.5.34 AWS-AD 1.6.4 AWS-EX 1.1.7d AWS-AD 1.8a	Occupational Skills Technical Core Standards AWS 1.21 MN-3 MN-HSE-1-3 MN-PRO-2 AWS-AD 1.5.34 MN-6 MN-1 AWS-AD 1.6.4 MN-6 MN-PPD-1 AWS-EX 1.1.7d MN-6MN-PPD-1 AWS-AD 1.8a MN-6MN-MIR-1 MN-PPD-1 AWS-AD 1.8a MN-6 MN-MIR-1 MN-MIR-1 AWS-AD 1.10.1d MN-6 MN-MIR-1	Occupational Skills Technical Core Standards Alaska ENG/LA Standards AWS 1.21 MN-3 MN-HSE-1-3 MN-PRO-2 R.1.9-12 R.2.9-12 R.3.9-12 R.4.9-12 AWS-AD 1.5.34 MN-6 MN-PRO-2 R.2.9-12 R.3.9-12 R.4.9-12 R.9.9-12 AWS-AD 1.6.4 MN-6 MN-PPD-1 MN-PPD-1 MN-PPD-1 R.3.9-12 R.2.9-12 MN-PPD-1 AWS-AD 1.8a MN-6MN-MIR-1 MN-PPD-1 MN-PPD-1 R.4.9-12 W.2b.9-12 MN-9.9-12 MN-MIR-1 R.2.9-12 MN-MIR-1 R.2.9-12 MN-MIR-1 R.2.9-12 MN-MIR-1 R.2.9-12 MN-MIR-1 R.2.9-12 MN-MIR-1 R.2.9-12 R.3.9-12 AWS-AD 1.10.1d MN-6 MN-MIR-1 MN-MIR-1 MN-MIR-1 MN-MIR-1 R.2.9-12 R.3.9-12	Occupational Skills Standard Technical Core Standards Alaska ENG/LA Standards Alaska ENG/LA Standards AWS 1.21 MN-3 MN-HSE-1-3 MN-PRO-2 R.1.9-12 R.2.9-12 R.3.9-12 R.4.9-12 R.2.9-12 R.3.9-12 R.4.9-12 AWS-AD 1.5.34 MN-6 MN-6 MN-1 R.4.9-12 R.9.9-12 R.3.9-12 M2.4.1-4 M2.4.1-4 AWS-AD 1.6.4 MN-PPD-1 MN-PPD-1 MN-PPD-1 R.2.9-12 M7.4.1 M7.4.1 AWS-EX 1.1.7d MN-6MN-MIR-1 MN-PPD-1 MN-PPD-1 R.4.9-12 M.9.9-12 M7.4.1 M7.4.1 AWS-AD 1.8a MN-6MN-MIR-1 MN-MIR-1	Occupational Skills Technical Core Standards Alaska ENG/LA Standards Alaska Math Standards Alaska Cultural Standards AWS 1.21 MN-3 MN-4 MN-4 MN-4 MN-4 MN-4 MN-4 MN-4 MN-4	Occupational Skills Technical Core Standards Alaska ENG/LA Standards Alaska Math Standards Alaska Cultural Standards Career Readiness Standards AWS 1.21 MN-3 MN-HSE-1-3 MN-HSE-1-3 MN-PRO-2 R.1.9-12 R.2.9-12 R.3.9-12 R.3.9-12 R.4.9-12 C3 A6 AWS-AD 1.5.34 MN-6 MN-1 R.3.9-12 R.2.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 M2.4.1-4 M2.4.1 A2 AWS-AD 1.6.4 MN-PPD-1 MN-PPD-1 MN-PPD-1 MN-PPD-1 R.3.9-12 MN-4.1 M7.4.1 A2 AWS-EX 1.1.7d MN-6MN-MIR-1 MN-PPD-1 MN-PPD-1 R.2.9-12 R.2.9-12 R.3.9-12 MN-MIR-1 MN-PPD-1 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 MN-MIR-1 MN-MIR-1 MN-PPD-1 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 MN-MIR-1 MN-PPD-1 R.3.9-12 R.3.9-12 R.3.9-12 MN-MIR-1 MN-MIR-1 MN-MIR-1 MN-PPD-1 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 R.3.9-12 MN-PPD-1 R.3.9-12 R.3.9-1	Occupational Skills Technical Core Standards Alaska ENG/LA Standards Alaska Cultural Standards Career Readiness Standards All Aspects of Industry/ Systems AWS 1.21 MN-3 MN-HSE-1-3 MN-HSE-1-3 MN-PRO-2 R.1.9-12 R.2.9-12 R.3.9-12 R.4.9-12 R.3.9-12 R.4.9-12 R.3.9-12 MN-PPD-1 M2.4.1-4 R.3.3.3.3.3.4.3.3.3.3.3.3.3.3.3.3.3.3.3.

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

Welding Technology Fundamentals, by Bowditch, 4th Edition, 2010

Hobart Institute of Welding Technology Training Workbooks, SMAW, GTAW, GMAW, OAW, FCAW, 1997, www.welding.org American Welding Society: http://www.aws.org/certification/CW/

NCCER: http://www.nccer.org

Http://www.youtube.com