

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Introduction to Construction
Course Number	86110
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Architect, Cabinetry, Carpenter
Date of district Course Revision	February 2015

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	Skills USA
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Occupational Standards

Source of Occupational Standards	National Center for Construction Education and Research (NCCER); Skills USA
Names/Numbers of Occupational Standards	NCCER; SkillsUSA

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Introduction to Construction covers the use of carpentry tools, construction tools, and instruments as well as the processes involved in construction. Basic mathematical procedures commonly used in the construction crafts are included. Safety is stressed throughout the course. Certification from the NCCER (National Center for Construction Education and Research) core curriculum is available.
Instructional Topic Headings (please separate each heading by a semi-colon)	Personal Safety and Job-Site Conditions, Construction Math, Hand Tools, Power Tools, Blueprint Reading, Basic Rigging, Encourage Career and Technical Student Organization (CTSO) Involvement

Summative Assessments and Standards

Technical Skills Assessment (TSA)	NCCER
Course addresses:	Safety, Tools (Power and Hand Held), Communication, Math
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes

Employability Standards

Source of Employability Standards	State of Alaska
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Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	No
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
Postsecondary Course Number	
# of Postsecondary Credits	

Additional CTE Course Information

Author	
Course developed by	Ray Jensen, Randy Wolfe, Alan Johnson, Johnathan Halfacre, Gilbert Campbell, Bryan Kirby, Brad Drake
Course adapted from	
Date of previous course revision	February 2006
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	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
Identify and practice carpentry safety standards.	NCCER – CORE Basic Safety (00101-09)	AC 3 AC-CST 5, 9	RST.9-12.3, 4 & 7	S-MD.6	A1 B2,3,4	A6	Health/Safety Work Habits	NCCER CORE Basic Safety State of Alaska DEED Safety Manual
Apply a variety of math strategies and skills to solve carpentry problems.	NCCER – CORE Intro to Construction Math (00102-09)	AC 1, 6	RST.9-12.3, 4 & 7	N-Q.1-3 AREI.1-4 G-CO.1-12 G-GMD.1,3&4 G-MG.1-3 S-ID.9 S-IC.6	B 2,4	A2	Tech Skills Technology	NCCER CORE Intro to Construction Math
Identify and describe employability skills.	SkillsUSA – Technical	AC1,4,5,7	L.9-12.6; SL.9-12.1,	S-IC.6 S-MD.6&7	B2,3,4	A 1-7 B1-5	Labor Planning	NCCER CORE

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	Standards – Job Interview NCCER Basic Employability Skills 00108-09		4, 6				Work Habits	Curriculum – Communication & Employment SkillsUSA Job Interview
Recognize and describe effective communication skills.	SkillsUSA – Technical Standards Speech, NCCER Core 00107-09	AC1,5,7 AC-CST 5,6 AC-DES 2,7	L.9-12.1, 2, 4, 6 SL.9-12.1, 4, 6	S-IC.6	B 1,3,4 E6	A1,2,5	Community Work Habits Technology Tech Skills Labor	SkillsUSA Speech NCCER – Basic Communication
Identify and select proper use and care of hand tools.	NCCER – CORE Intro to Hand Tools (00103-09) SkillsUSA – Technical-Carpentry	AC2 AC-CST 5,9	RST.9-12.3&4 RST.9-10.5	S-IC.6 S-MD.6&7	B2,3,4	A2,5	Tech Skills	NCCER – CORE Intro to Hand Tools DEED Safety SkillsUSA Carpentry
Identify and select proper use and care of power tools.	NCCER – CORE Intro to Power Tools (00104-09) SkillsUSA – Technical-Carpentry	AC2 AC-CST 5,9	RST.9-12.3&4 RST.9-10.5	S-IC.6 S-MD.6&7	B2,3,4	A2,5	Tech Skills	NCCER – CORE Intro to Power Tools DEED Safety SkillsUSA Carpentry
Recognize and identify basic construction drawings.	NCCER – CORE Intro to Construction Drawings	AC1,2,6	L.9-12.6 RST.9-12.1-10	N-Q.1-3 N-CN.4-6	B2,3,4	A2,5	Tech Skills	NCCER – CORE Intro to Construction Drawings

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	(00105-09)							(00105-09)
Identify and describe the use of safe rigging operations.	NCCER – CORE Basic Rigging (00106-09)	AC 1,3,5	RST.9-12.3&4 RST.9-10.5	G-GMD.1,3,4	B2,4	A2,5,6	Tech Skills	NCCER – CORE Basic Rigging
Identify and describe construction career opportunities.		AC5,7	L.9-12.6 WHST.9-12.4&8	S-IC.6 S0MD.6&7	B2,3,4	A1-7 B1-5	Planning Work Habits	Class Discussion and Observation
Name and label parts of Foundation and Flooring components.	Skills USA C 3.0	AC1,2,6	L.9-12.6 WHST.9-12.4&8	N-Q.1-3 AREI.1-4 G-CO.1-12 G-GMD.1,3&4 G-MG.1-3 S-ID.9 S-IC.6	B2,4	A2,5	Tech Skills	Class Discussion and Observation Skills USA
Recognize components of Walls, Framing, Windows and Doors.	Skills USA C 3.0 C 4.0	AC1,2,6	L.9-12.6 WHST.9-12.4&8	N-Q.1-3 AREI.1-4 G-CO.1-12 G-GMD.1,3&4 G-MG.1-3 S-ID.9 S-IC.6	B2,4	A2,5	Tech Skills	Class Discussion and Observation Skills USA
Describe basic Roof construction	Skills USA C 5.0	AC1,2,6	L.9-12.6 WHST.9-12.4&8	N-Q.1-3 AREI.1-4 G-CO.1-12 G-GMD.1,3&4 G-MG.1-3 S-ID.9	B2,4	A2,5	Tech Skills	Class Discussion and Observation Skills USA

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				S-IC.6				
Describe basic Plumbing systems	Skills USA PLB 1 - 6	AC1,2,6	L.9-12.6 WHST.9-12.4&8	N-Q.1-3 AREI.1-4 G-CO.1-12 G- GMD.1,3&4 G-MG.1-3 S-ID.9 S-IC.6	B2,4	A2,5	Tech Skills	Class Discussion and Observation Skills USA
Describe basic Electrical systems	Skills USA ECW 1-4, 7,9	AC1,2,6	L.9-12.6 WHST.9-12.4&8	N-Q.1-3 AREI.1-4 G-CO.1-12 G- GMD.1,3&4 G-MG.1-3 S-ID.9 S-IC.6	B2,4	A2,5	Tech Skills	Class Discussion and Observation Skills USA

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)
[Modern Woodworking](#), Willis Wagner and Clois Kicklighter, The Goodheart-Wilcox Company, 1996
[NCCER Core](#)