

## CTE Course Description and Standards Crosswalk

### Course Information

Course Name	Construction Trades Part 2 Semester 2
Course Number	86142
Number of High School Credits	1
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	April 2014

### 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)	Construction Trades—Part 2 focuses on the finish side of residential construction. Students will actively participate in finishing the framed house built by the first part of construction trades. Students will learn how the various parts of a house integrate together to make a marketable, street appealing, energy efficient home. In addition, students will have an opportunity to gain expert advice by working together with private specialty contractors throughout various phases of the project.
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Instructional Topic Headings (please separate each heading by a semi-colon)	Personal Safety and Job-Site Conditions; Hand and Power Tool Safety; Identification, Use and Care of Tools; Construction Materials—Identification and Use; Construction Drawing reading and Construction Math, Materials handling, Integrated Systems—Heating, Plumbing, Electrical; Interior Walls and Ceiling Finish; Interior Doors and Hardware; Interior Trim; Finish Flooring; Cabinets and Countertops; Marketing and Real Estate; Cold Climate Construction (Energy Efficiency, Weatherization); Career and Technical Student Organization (CTSO) Involvement
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### 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	

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## 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	Feb 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
Justify and defend construction safety standards.	NCCER— CORE Basic Safety (00101-09) SkillsUSA— Technical Standards Book p. 41 (Occupational Health & Safety)	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
Interpret a variety of math strategies and skills to solve construction 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	B 2,4	A2	Tech Skills Technology	NCCER CORE Intro to Construction Math

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				S-ID.9 S-IC.6				
Summarize and defend employability skills for leadership positions.	SkillsUSA— Technical Standards Book p. 37 (Job Interview)  NCCER Basic Employability Skills (00108-09)	AC1,4,5,7	L.9-12.6 SL.9-12.1, 4, 6	S-IC.6 S-MD.6&7	B2,3,4	A 1-7 B1-5	Labor Planning Work Habits	NCCER CORE Curriculum – Communication & Employment Skills USA Job Interview
Summarize and defend effective communication skills.	Skills USA— Technical Standards Book p. 35 & 59 (Speech)  NCCER Basic Communication Skills (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
Choose appropriate building materials (i.e. building materials, fasteners, and adhesives).	NCCER— Wood Building Materials (27102-13)  Materials Handling (00109-09)	AC1,2 AC-CST 9 AC-DES 8	L 9-12.6; WHST 9-12.4,8	N-Q.1 S-IC.6 S-MD.6&7	B2,3,4	A2,5	Technical Skills	NCCER Materials Handling

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Select and justify proper use and maintenance of construction tools and equipment.	NCCER— CORE Intro to Hand Tools (00103) CORE Intro to Power Tools (00104-09) module 27103-13  SkillsUSA – Technical Standards Book p. 149 (Carpentry)	AC1,2 AC-CST 9 AC-DES 8	RST.9-12.3&4 RST.9-10.5	S-IC.6 S-MD.6&7	B2,4	A2,5	Technical Skills	NCCER – Hand Tools and Power Tools
Appraise industry standard practices for various construction processes (i.e. floor systems, wall and ceiling framing, roof framing, and windows/doors).	NCCER— Carpentry Modules 27105-13 27111-13 27112-13 SkillsUSA— Technical Standards Book p. 149 (Carpentry)	AC 1,2	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	Technical Skills	SkillsUSA
Choose and describe knowledge of building codes and regulations related to the construction trade.		AC3 AS-DES 4	RST 9-10.7; RST 11-12.7; RST 9-12.4	S-IC.6	B2,3,4 C2	A2,5,6	Technical Skills Health/Safety	Class Discussion & Observation

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Explain various mechanical systems.	Skills USA HVAC 6.0, 9.0,10.0,12.0	AC 1,6	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	A 2,5	Technical Skills	Class Discussion & Observation
Demonstrate proper finishing applications in a residential home.	Skills USA C 6-7	AC 1,2 AC-CST 4 AC-DES 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	A 2,5	Technical Skills	Class Discussion & Observation
Demonstrate knowledge of energy efficient home building		AC 1,2,4,6 AC-CST 7 AC-DES 6,7,8	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	A 2,5	Technical Skills	Class Discussion & Observation
Compare and Contrast construction career opportunities.	NCCER— Orientation to the Trade (27101-13) ASVAB Employability Skills (00108-09) SkillsUSA—	AC 4,5,7 AC-DES2,7	L.9-12.6 WHST.9-12.4&8	S-MD.6&7	B3 D6	A1-7 B1-5	Planning Work Habits Labor	NCCER – Employability Skills ASVAB

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	Technical Standards Book p. 107 Total Quality Management							

**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,  
 NCCER Core  
 NCCER LEVEL 1 Carpentry