

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Construction Trades Part 2 Semester 1
Course Number	86141
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	

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
Model 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
Compare and select math strategies and skills to calculate 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				
Model effective employability skills.	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
Model effective communication skills.	Skills USA— Technical Standards Book p. 35 & 59 (Speech) NCCER – 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
Plan and categorize building materials (i.e. building materials, fasteners, and adhesives).	NCCER— Materials Handling (00109-09) Building Materials (27102-13)	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
Set up and Demonstrate proper use and maintenance of construction tools and equipment.	NCCER— Hand Tools	AC1,2 AC-CST 9	RST.9-12.3&4	S-IC.6 S-MD.6&7	B2,4	A2,5	Technical Skills	NCCER – Hand Tools

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	and Power Tools(00103-09, 00104-09) NCCER— Carpentry Modules 27104-27107 SkillsUSA – Technical Standards Book p. 149 (Carpentry)	AC-DES 8	RST.9-10.5					and Power Tools
Select, combine and employ 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
Summarize 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
Identify various mechanical systems.	SkillsUSA – 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-	B2,4	A 2,5	Technical Skills	Class Discussion & Observation

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				GMD.1,3&4 G-MG.1-3 S-ID.9 S-IC.6				
Identify proper finishing applications in a residential home.	SkillsUSA – 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
Describe 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
Plan, explore and analyze construction career opportunities.	NCCER – Orientation to the Trade (27101) Employability Skills (00108-09) SkillsUSA – Technical Standards Book p. 107 Total Quality Management	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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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