

## CTE Course Description and Standards Crosswalk

### Course Information

Course Name	Construction Trades D Semester 2
Course Number	86146
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)	Construction Trades—D: Builds on the concepts of residential construction and may provide hands-on training to students who will learn about safety, hand and power tools and materials. Students will construct or discuss building framed walls, siding, roofing and trim.
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; Excavation and Site Work; Footings and Foundations; Framing Concepts—Floors, Walls, Roofs; Exterior and Interior Finishes—Siding, Roofing, Trim; Stairway Construction; Electrical; Plumbing. 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
Assess 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
Describe 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				
Explain and summarize appropriate 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
Explain and summarize appropriate 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
Chose and construct appropriate building materials (i.e. wood 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
Select the appropriate use and maintenance of construction tools	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 equipment.	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
Evaluate 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
Select and explain various construction career opportunities.	NCCER— Orientation to the Trade (27101)  Employability Skills (00108-09)	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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	SkillsUSA— 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