

CTE Course Description and Standards Crosswalk

Course Information	
Course Name	Construction Trades D Semester 1
Course Number	86145
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
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
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	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
Comply with 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
Categorize 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				
Develop 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 SkillsUSA Job Interview
Develop 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
Arrange and assemble 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
Explain the appropriate use and maintenance of construction	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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tools 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
Explain 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
Plan and prepare for 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