

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Construction Trades A Semester 2
Course Number	86134
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—A, Semester 2 Introduces 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	

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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
Define and identify construction 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
Explain 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 S-ID.9 S-IC.6	B 2,4	A2	Tech Skills Technology	NCCER CORE Intro to Construction Math
Describe and discuss employability skills.	SkillsUSA – Technical Standards – Job	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 &

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	Interview NCCER – Basic Employability Skills (00108-09)							Employment SkillsUSA Job Interview
Give examples of effective communication skills.	SkillsUSA – Technical Standards 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
Describe building materials (i.e. wood building materials, fasteners, and adhesives).	NCCER 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
Explain proper use and maintenance of construction tools and equipment.	NCCER – Hand Tools and Power Tools (00103-09,00104-09)	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
Classify industry standard practices for various construction processes (i.e. floor systems, wall and ceiling framing, roof framing, and windows/doors).	SkillsUSA – C 1-10	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

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Describe construction career opportunities.	NCCER – Employability Skills (00108-09)	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

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