

Career and Technical Education

Course Description and Standards Crosswalk Form (#05-20-038)

District Name:	Southeast Island School District
Date:	April 9, 2024
Course Name:	Introduction to Construction Trades Technology
Course Number:	Const 1
Middle School:	<input type="checkbox"/> This is a middle school course
Foundational Course	<input type="checkbox"/> This is a foundational CTE course (foundational courses are not technical)
Prerequisites <i>(If this course requires prerequisites, please name them)</i>	
Number of HS Credits:	.25
Sequence(s): <i>(These may be sequence or CTEPS titles - District must first have these entered into the Portal – titles must match)</i>	Architectural and Construction
Source(s) of Technical Standards: <i>(Selection must match the Portal selection)</i>	American Red Cross National Career Clusters Knowledge and Skills
Names/Numbers of Technical Standards: <i>(Selection must match Portal selections)</i>	Construction – [C] Design/Pre-construction – [C] Maintenance/Operations – [C] Standard First Aid – [C]
Course Description:	Introduction to Construction Trades Technology is a foundation course that lays a foundation for modern day woodworking and its articulation into the construction field. Students will acquire a fundamental knowledge in the safe use of hand tools, power equipment and woodworking procedures. Students will plan, design, select materials, layout, cut, assemble and finish a project in this intensive week-long course.
Instructional Topic Headings:	Safety, Maintenance, Construction Tools and Machines, Construction Techniques, Construction Planning, Construction Materials, Building Basics
Recognized Postsecondary Credential (RPC): <i>(Replaces TSA - not all TSAs will qualify as an RPC, and RPC is not required for all courses)</i>	
Employability Standards source: <i>(Name source of employability standards – must match Portal)</i>	Employability Standards (Source) State of Alaska Employability Standards, Career Clusters Knowledge and Skills

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CTSO participation is included: <i>(Name of CTSO must match drop-down box selection in the Portal)</i>	None
Current Dual Credit Agreement: <i>(Agreements should be reviewed and updated annually)</i>	<input type="checkbox"/> <i>(If checked, complete the Dual Credit section below.)</i>
Date:	
Postsecondary Institution Name:	
Postsecondary Course Name:	
Postsecondary Course Number:	
Postsecondary Course Credit:	

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Course developed by:	Anthony Cook
Course adapted from:	
Course is brokered through another institution or agency:	<input type="checkbox"/> <i>(if checked, name of institution/agency)</i>

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Student Performance Standards (Instructional Topic Headings)	Specific Technical Skills Standards	Alaska English / Language Arts Standards	Alaska Math Standards	Alaska Science Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	Assessment
Match vocabulary and visual cues to workplace/jobsite situations.	AC 1.1	RSIT 4, 7,			B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions.
Utilize vocabulary and visual cues in context of design and construction situations.	AC 1.2	RSIT 4, 7,			B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions.
Estimate resources/materials required for a specific project or problem.	AC 2.2	RSIT 1, 2, 3,	N-Q 1-3 A-SSE 1,3,	HS-ETS1-3 HS-ETS1-2 HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions.
Use available resources/materials effectively while completing a project or resolving a problem with a project plan.	AC 2.3	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6		HS-ETS1-3 HS-ETS1-2 HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions.
Determine alternative solutions for a specific project/problem.	AC 2.4			HS-ETS1-3	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions.

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Plan, organize, schedule, and manage a project/job to optimize workflow and outcome.	AC 2.5	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6	N-Q 1-3	HS-ETS1-3 HS-ETS1-2 HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions. Checklists
Evaluate workplace/jobsite activities for compliance with governmental and other applicable safety regulations such as EPA and OSHA.	AC 3.1	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6			B2, B4, D5, D6	A1, A2, A6, B1,	Student demonstration, Quizzes, Essential questions, Safety quizzes
Identify workplace/jobsite environmental hazards of a given situation.	AC 3.2			HS-ETS1-4	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions, Safety quizzes
Use MSDS (Material Safety Data Sheets) information for the management, use, and disposal of materials.	AC 3.4	WST 2, 3, 4, 6,8, RSIT 1, 2, 3,	N-Q 1-3	HS-ETS1-2 HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration of filling out a MSDS.
Describe how relationships between trades/professions can facilitate smooth workflow and outcome to meet project goals.	AC 4.1	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6			B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions,

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Explain how the hierarchy of roles on a jobsite facilitates smooth workflow and outcome to meet project goals.	AC 4.2	LST 1,2,3,5,6			B2, B4, D5, D6	A1, A2, A6, B1, B5	Student demonstration, Quizzes, Essential questions,
Analyze a proposed contract in terms of the company's position and union's position in labor contract negotiations.	AC 5.1	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6			B2, B4, D5, D6	A1, A2, A6, B1, B5	Student demonstration, Quizzes, Essential questions,
Assess a situation for compliance with terms of a contract.	AC 5.2	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6		HS-ETS1-3	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions,
Discuss the role and responsibilities among the trades/professions in the work environment.	AC 5.3	LST 1,2,3,5,6			B2, B4, D5, D6	A1, A2, A6, B1, B5	Student demonstration, Quizzes, Essential questions,
Interpret drawings used in project planning.	AC 6.1	RSIT 1, 2, 3, LST 1,2,3,5,6	N-Q 1-3	HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions,

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Recognize how specifications and standards are arranged for proper access.	AC 6.2				B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions,
Use architect’s plan, manufacturer’s illustrations and other materials to communicate specific data and visualize proposed work.	AC 6.3	LST 1,2,3,5,6 RSIT 1, 2, 3,	N-Q 1-3 A-SSE 1,3,	HS-ETS1-2 HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions,
Describe the written standards and specifications that apply.	AC 6.4	LST 1,2,3,5,6 RSIT 1, 2, 3,			B2, B4, D5, D6		Student demonstration, Quizzes, Essential questions,
Research and match career opportunities based upon their fit with personal career goals.	AC 7.1	WST 7,8,9			B2, B4, D5, D6	A3, A4, A5, A6, B1, B2, B3, B4, B5	AKCIS
Match personal interests and aptitudes to careers when researching opportunities within the pathways.	AC 7.2	RSIT 1, 2, 3, WST 7,8,9			B2, B4, D5, D6	A3, A4, A5, A6, B1, B2, B3, B4, B5	AKCIS
Develop a career plan for advancement in architecture and construction careers.	AC 7.3	RSIT 1, 2, 3, WST 2, 3, 4, 6,8, LST 1,2,3,5,6			B2, B4, D5, D6	A3, A4, A5, A6, B1, B2, B3, B4, B5	AKCIS

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Apply practices and procedures required to maintain jobsite safety.	AC-CST 5.1, 5.2, 5.3, 5.4, 5.5				B2, B4, D5, D6	A1, A2, A6	Student demonstration, Quizzes, Essential questions, Safety quizzes
Demonstrate the construction crafts required for each phase of a construction project.	AC-CST 8.1		N-Q 1-3	HS-ETS1-3 HS-ETS1-2 HS-ETS1-1	B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions, Safety quizzes
Safely use and maintain appropriate tools, machinery, equipment and resources to accomplish construction project goals.	AC-CST 9.1, 9.2, 9.3				B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions, Safety quizzes
Use effective communication skills and strategies (listening, speaking, reading, writing and graphic communications) to work with clients and colleagues.	AC-DES 2.1, 2.2	LST 1,2,3,5,6			B2, B4, D5, D6	A1, A2, A6, B1	Student demonstration, Quizzes, Essential questions, Safety quizzes

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<p>List the major instructional resources used for this course: <i>(websites, textbooks, essential equipment, reference materials, supplies)</i></p>	<p><u>Carpentry & Building Construction</u> textbook by N/A McGraw-Hill 1st edition, ISBN 9780078797842</p> <p><u>Equipment & Supplies:</u> Basic framing hand tools Tool belts Circular Saw Miter Saw Air compressor Nail Gun Jig Saw Reciprocating Saw Construction Lumber Fasteners Other related Construction Materials.</p>
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