

***BUILDING TRADES IN  
CONSTRUCTION TECHNOLOGY  
CURRICULUM FRAMEWORK***



This document was prepared by:

Office of Career Readiness, Adult Learning, and Education Options  
Nevada Department of Education  
755 N. Roop Street, Suite 201  
Carson City, NV 89701

[www.doe.nv.gov](http://www.doe.nv.gov)

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**VISION**

*All Nevadans ready for success in the 21st century*

**MISSION**

*To improve student achievement and educator effectiveness by ensuring opportunities, facilitating learning, and promoting excellence*



## INTRODUCTION

The Nevada Career and Technical Education (CTE) Curriculum Frameworks are a resource for Nevada's public schools and charter schools to design, implement, and assess their CTE programs and curriculum. The content standards identified in this document are listed as a model for the development of local district programs and curriculum. They represent rigorous and relevant expectations for student performance, knowledge, and skill attainment which have been validated by industry representatives.

This curriculum framework ensures the following:

- CTE course(s) and course sequence teaches the knowledge and skills required by industry through applied learning methodology and, where appropriate, work-based learning experiences that prepare students for careers in high-wage, high-skill, and/or in-demand fields. Regional and state economic development priorities shall play an important role in determining program approval. Some courses also provide instruction focused on personal development.
- CTE course(s) and course sequence includes leadership and employability skills as an integral part of the curriculum.
- CTE course(s) and course sequence is part of a rigorous program of study and includes sufficient technical challenge to meet state and/or industry-standards.

**NEVADA DEPARTMENT OF EDUCATION**  
**CURRICULUM FRAMEWORK FOR**  
**BUILDING TRADES IN CONSTRUCTION TECHNOLOGY**

**PROGRAM INFORMATION**

**Program Title:** Building Trades in Construction Technology  
**State Skill Standards:** Building Trades in Construction Technology  
**Standards Reference Code:** BTCT  
**Career Cluster:** Architecture and Construction  
**Career Pathway:** Construction  
**Program Length:** 2-year, completed sequentially  
**Program Assessments:** TBD  
**Workplace Readiness Skills**  
**CTSO:** SkillsUSA  
**Grade Level:** 9-12  
**Industry Certifications:** See Nevada's Approved Certification Listing

**PROGRAM PURPOSE**

The purpose of this program is to prepare students for postsecondary education and employment in the Building Trades in Construction Technology industry.

The program includes the following state standards:

- Nevada CTE Skill Standards: Building Trades in Construction Technology
- Employability Skills for Career Readiness
- Nevada Academic Content Standards (alignment shown in the Nevada CTE Skill Standards):
  - English Language Arts
  - Mathematics
  - Science
- Common Career Technical Core (alignment shown in the Nevada CTE Skill Standards)

**CAREER CLUSTERS**

The National Career Clusters® Framework provides a vital structure for organizing and delivering quality CTE programs through learning and comprehensive programs of study (POS). In total, there are 16 Career Clusters in the National Career Clusters Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and career. As an organizing tool for curriculum design and instruction, Career Clusters provide the essential knowledge and skills for the 16 Career Clusters and their Career Pathways.\*

\*Cite: National Association of State Directors of Career Technical Education Consortium. (2012). Retrieved from <https://cte.careertech.org/sites/default/files/CareerClustersPathways.pdf> and <https://www.air.org/sites/default/files/CTEClusters.pdf>

**PROGRAM OF STUDY**

The program of study illustrates the sequence of academic and career and technical education coursework that is necessary for the student to successfully transition into postsecondary educational opportunities and employment in their chosen career path. (NAC 389.803)

**PROGRAM STRUCTURE**

The core course sequencing with the complementary courses provided in the following table serves as a guide to schools for their programs of study. Each course is listed in the order in which it should be taught. Complete program sequences are essential for the successful delivery of all state standards in each program area. A program does not have to utilize the complementary courses for students to complete their program of study.

**BUILDING TRADES IN CONSTRUCTION TECHNOLOGY****Required Core Course Sequence (R) with Complementary Courses (C)**

Required/ Complementary	Course Title	Abbreviated Name	CIP Code	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Building Trades in Construction Technology I	BUILD CONST TECH I	46.0000	17	003	G	1.00	12	17003G1.0012
R	Building Trades in Construction Technology II	BUILD CONST TECH II	46.0000	17	003	G	1.00	22	17003G1.0022
C	Building Trades in Construction Technology II Lab	BUILD CONST TECH LAB	46.0000	17	003	E	1.00	22	17003E1.0022
C	Building Trades in Construction Technology Advanced Studies	BUILD CONST TECH AS	46.0000	17	003	E	1.00	11	17003E1.0011
C	CTE Work Experience - Architecture and Construction	WORK EXPER CONST	99.0002	17	998	G	1.00	11	17998G1.0011

**STATE SKILL STANDARDS**

The state skill standards are designed to clearly state what the student should know and be able to do upon completion of an advanced high school career and technical education (CTE) program. The standards are designed for the student to complete all standards through their completion of a program of study. The standards are designed to prepare the student for the end-of-program technical assessment directly aligned to the standards. (Paragraph (a) of Subsection 1 of NAC 389.800)

**EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS**

Employability skills, often referred to as “soft skills,” have for many years been a recognizable component of the standards and curriculum in career and technical education programs. The twenty-one standards are organized into three areas: (1) Personal Qualities and People Skills; (2) Professional Knowledge and Skills; and (3) Technology Knowledge and Skills. The standards are designed to ensure students graduate high school properly prepared with skills employers prioritize as the most important. Instruction on all twenty-one standards must be part of each course of the CTE program. (Paragraph (d) of Subsection 1 of NAC 389.800)

**CURRICULUM FRAMEWORK**

The Nevada CTE Curriculum Frameworks are organized utilizing the recommended course sequencing listed in the program of study and the CTE Course Catalog. The framework identifies the recommended content standards, performance standards, and performance indicators that should be taught in each course.

**CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOs)**

To further the development of leadership and technical skills, students must have opportunities to participate in one or more of the Career and Technical Student Organizations (CTSOs). CTSOs develop character, citizenship, and the technical, leadership and teamwork skills essential for the workforce and their further education. Their activities are considered a part of the instructional day when they are directly related to the competencies and objectives in the course. (Paragraph (a) of Subsection 3 of NAC 389.800)

**WORKPLACE READINESS SKILLS ASSESSMENT**

The Workplace Readiness Skills Assessment has been developed to align with the Nevada CTE Employability Skills for Career Readiness Standards. This assessment provides a measurement of student employability skills attainment. Students who complete a program will be assessed on their skill attainment during the completion level course. Completion level courses are identified in the Program Structure table as SCED Course Level “G” and SCED Course Sequence 22 or 33. (Paragraph (d) of Subsection 1 of NAC 389.800)

**END-OF-PROGRAM TECHNICAL ASSESSMENT**

An end-of-program technical assessment may be implemented for those programs with current industry validated standards to align with the Nevada CTE Skill Standards for this program. This assessment provides a measurement of student technical skill attainment. Students who complete a program will be assessed on their skill attainment during the completion level course. Completion level courses are identified in the Program Structure table as SCED Course Level “G” and SCED Course Sequence 22 or 33. Paragraph (e) of Subsection 1 of NAC 389.800)

**CERTIFICATE OF SKILL ATTAINMENT**

Each student who completes a course of study must be awarded a certificate which states that they have attained specific skills in the industry being studied and meets the following criteria: A student must maintain a 3.0 grade point average in their approved course of study, pass the Workplace Readiness Skills Assessment, and pass the end-of-program technical assessment. (Subsection 4 of NAC 389.800)

**CTE ENDORSEMENT ON A HIGH SCHOOL DIPLOMA**

A student qualifies for a CTE endorsement on their high school diploma after successfully completing the following criteria: (1) completion of a CTE course of study in a program area; (2) completion of academic requirements governing receipt of a standard diploma; and (3) meet all requirements for the issuance of the Certificate of Skill Attainment. (NAC 389.815)

**CTE COLLEGE CREDIT**

CTE College Credit is awarded to students based on articulation agreements established by each college for the CTE program, where the colleges will determine the credit value of a full high school CTE program based on course alignment. An articulation agreement will be established for each CTE program designating the number of articulated credits each college will award to students who complete the program.

CTE College Credit is awarded to students who: (1) complete the CTE course sequence with a grade-point average of 3.0 or higher; (2) pass the state end-of-program technical assessment for the program; and (3) pass the Workplace Readiness Assessment for employability skills.

Pre-existing articulation agreements will be recognized until new agreements are established according to current state policy and the criteria shown above.

Please refer to the local high school's course catalog or contact the local high school counselor for more information. (Paragraph (b) of Subsection 3 of NAC 389.800)

**ACADEMIC CREDIT FOR CTE COURSEWORK**

Career and technical education courses meet the credit requirements for high school graduation (1 unit of arts and humanities or career and technical education). Some career and technical education courses meet academic credit for high school graduation. Please refer to the local high school's course catalog or contact the local high school counselor for more information. (NAC 389.672)

**CORE COURSES****RECOMMENDED STUDENT PERFORMANCE STANDARDS****COURSE INFORMATION****Course Title:** Building Trades in Construction Technology I**Abbr. Name:** BUILD CONST TECH I**Credits:** 1**Prerequisite:** None**CTSO:** SkillsUSA**COURSE DESCRIPTION**

This course will introduce students to the construction industry. Through a hands-on approach, each student will develop basic understanding in the areas of construction: safety, blueprint reading, finish carpentry, framing, fundamental design techniques, identifying material properties and hardware, and applying basic principles of plumbing, electrical and manufacturing processes. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course. The appropriate use of technology and industry-standard equipment is an integral part of this course.

**TECHNICAL STANDARDS****CONTENT STANDARD 1.0: INTEGRATE CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOS)**

Performance Standard 1.1: Explore the History and Organization of CTSOs

*Performance Indicators:* 1.1.1-1.1.3

Performance Standard 1.2: Develop Leadership Skills

*Performance Indicators:* 1.2.1-1.2.6

Performance Standard 1.3: Participate in Community Service

*Performance Indicators:* 1.3.1-1.3.3

Performance Standard 1.4: Develop Professional and Career Skills

*Performance Indicators:* 1.4.1-1.4.5

Performance Standard 1.5: Understand the Relevance of Career and Technical Education (CTE)

*Performance Indicators:* 1.5.1-1.5.3**CONTENT STANDARD 2.0: IDENTIFY LAB ORGANIZATION AND SAFETY PROCEDURES**

Performance Standard 2.1: Demonstrate General Lab Safety Rules and Procedures

*Performance Indicators:* 2.1.1-2.1.18

Performance Standard 2.2: Identify and Utilize Hand Tools

*Performance Indicators:* 2.2.1-2.2.5

Performance Standard 2.3: Identify and Utilize Power Tools and Equipment

*Performance Indicators:* 2.3.1-2.3.5**CONTENT STANDARD 3.0: PERFORM GENERAL CONSTRUCTION SKILLS**

Performance Standard 3.1: Demonstrate Print Reading Practices

*Performance Indicators:* 3.1.1-3.1.7

Performance Standard 3.2: Demonstrate and Apply Mathematical Concepts

*Performance Indicators:* 3.2.1-3.2.8

Performance Standard 3.3: Utilize Material Handling Techniques

*Performance Indicators:* 3.3.1-3.3.5



Performance Standard 3.4: Explore Career Opportunities

*Performance Indicators:* 3.4.1-3.4.3

**CONTENT STANDARD 4.0: APPLY FUNDAMENTAL DESIGN TECHNIQUES**

Performance Standard 4.1: Identify Elements of Design

*Performance Indicators:* 4.1.1

Performance Standard 4.2: Demonstrate Measures and Scaling Techniques

*Performance Indicators:* 4.2.1-4.2.3

Performance Standard 4.3: Demonstrate Freehand Technical Sketching Techniques

*Performance Indicators:* 4.3.1

Performance Standard 4.4: Apply Job Layout Practices

*Performance Indicators:* 4.4.1-4.4.4

**CONTENT STANDARD 5.0: IDENTIFY MATERIAL PROPERTIES AND HARDWARE**

Performance Standard 5.1: Identify Materials and Their Properties

*Performance Indicators:* 5.1.1

Performance Standard 5.2: Identify Fasteners and Methods

*Performance Indicators:* 5.2.1

Performance Standard 5.3: Identify Adhesives and Methods

*Performance Indicators:* 5.3.1-5.3.2

Performance Standard 5.4: Identify and Utilize Hardware

*Performance Indicators:* 5.4.1-5.4.2

**CONTENT STANDARD 6.0: APPLY ELECTRICAL PRINCIPLES**

Performance Standard 6.1: Identify Electrical Safety Procedures

*Performance Indicators:* 6.1.1-6.1.3

Performance Standard 6.2: Identify Fundamental Electrical Systems

*Performance Indicators:* 6.2.1-6.2.4

**CONTENT STANDARD 7.0: APPLY PLUMBING PRINCIPLES**

Performance Standard 7.1: Identify Drain, Waste, and Vent (DWV) Systems

*Performance Indicators:* 7.1.1-7.1.4

**CONTENT STANDARD 8.0: IDENTIFY AND APPLY MANUFACTURING PROCESSES**

Performance Standard 8.1: Identify Manufacturing Processes

*Performance Indicators:* 8.1.1-8.1.3

Performance Standard 8.2: Utilize Layout Principles and Practices

*Performance Indicators:* 8.2.1-8.2.4

Performance Standard 8.3: Utilize Milling Operations

*Performance Indicators:* 8.3.1-8.3.4

Performance Standard 8.4: Utilize Joinery Techniques

*Performance Indicators:* 8.4.1-8.4.2

Performance Standard 8.5: Utilize Sanding Processes and Techniques

*Performance Indicators:* 8.5.1-8.5.4

Performance Standard 8.6: Demonstrate Assembly Procedures

*Performance Indicators:* 8.6.1-8.6.5

Performance Standard 8.7: Demonstrate Finishing Procedures

*Performance Indicators:* 8.7.1-8.7.3

**EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS****CONTENT STANDARD 1.0: DEMONSTRATE EMPLOYABILITY SKILLS FOR CAREER READINESS**

Performance Standard 1.1: Demonstrate Personal Qualities and People Skills

*Performance Indicators:* 1.1.1-1.1.7

Performance Standard 1.2: Demonstrate Professional Knowledge and Skills

*Performance Indicators:* 1.2.1-1.2.10

Performance Standard 1.3: Demonstrate Technology Knowledge and Skills

*Performance Indicators:* 1.3.1-1.3.4

**ALIGNMENT TO THE NEVADA ACADEMIC CONTENT STANDARDS\***

**English Language Arts:** Reading Standards for Literacy in Science and Technical Subjects  
Writing Standards for Literacy in Science and Technical Subjects  
Speaking and Listening

**Mathematics:** Mathematical Practices  
Algebra  
Geometry  
Numbers and Quantity

**Science:** Physical Science

\*Refer to the Building Trades in Construction Technology Standards for alignment by performance indicator.

**COURSE INFORMATION**

**Course Title:** Building Trades in Construction Technology II  
**Abbr. Name:** BUILD CONST TECH II  
**Credits:** 1  
**Prerequisite:** Building Trades in Construction Technology I  
**Program Assessments:** TBD  
**Workplace Readiness Skills**  
**CTSO:** SkillsUSA

**COURSE DESCRIPTION**

This course is a continuation of Building Trades in Construction Technology I. This course provides intermediate students with additional knowledge and skills in the use of power tools, fundamental design techniques, manufacturing processes, framing systems and exterior finish applications. The appropriate use of technology and industry-standard equipment is an integral part of this course.

**TECHNICAL STANDARDS****CONTENT STANDARD 1.0: INTEGRATE CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOS)**

Performance Standard 1.1: Explore the History and Organization of CTSOs

*Performance Indicators:* 1.1.1-1.1.3

Performance Standard 1.2: Develop Leadership Skills

*Performance Indicators:* 1.2.1-1.2.6

Performance Standard 1.3: Participate in Community Service

*Performance Indicators:* 1.3.1-1.3.3

Performance Standard 1.4: Develop Professional and Career Skills

*Performance Indicators:* 1.4.1-1.4.5

Performance Standard 1.5: Understand the Relevance of Career and Technical Education (CTE)

*Performance Indicators:* 1.5.1-1.5.3

**CONTENT STANDARD 2.0: IDENTIFY LAB ORGANIZATION AND SAFETY PROCEDURES**

Performance Standard 2.3: Identify and Utilize Power Tools and Equipment

*Performance Indicators:* 2.3.4-2.3.5

**CONTENT STANDARD 3.0: PERFORM GENERAL CONSTRUCTION SKILLS**

Performance Standard 3.2: Demonstrate and Apply Mathematical Concepts

*Performance Indicators:* 3.2.7-3.2.8

Performance Standard 3.4: Explore Career Opportunities

*Performance Indicators:* 3.4.4-3.4.5

**CONTENT STANDARD 4.0: APPLY FUNDAMENTAL DESIGN TECHNIQUES**

Performance Standard 4.1: Identify Elements of Design

*Performance Indicators:* 4.1.2-4.1.3

Performance Standard 4.3: Demonstrate Freehand Technical Sketching Techniques

*Performance Indicators:* 4.3.2

Performance Standard 4.4: Apply Job Layout Practices

*Performance Indicators:* 4.4.4-4.4.5

**CONTENT STANDARD 5.0: IDENTIFY MATERIAL PROPERTIES AND HARDWARE**

Performance Standard 5.1: Identify Materials and Their Properties

*Performance Indicators:* 5.1.2-5.1.3

Performance Standard 5.2: Identify Fasteners and Methods

*Performance Indicators:* 5.2.2-5.2.3

Performance Standard 5.3: Identify Adhesives and Methods

*Performance Indicators:* 5.3.3-5.3.5

Performance Standard 5.4: Identify and Utilize Hardware

*Performance Indicators:* 5.4.3

**CONTENT STANDARD 6.0: APPLY ELECTRICAL PRINCIPLES**

Performance Standard 6.1: Identify Electrical Safety Procedures

*Performance Indicators:* 6.1.4-6.1.5

Performance Standard 6.2: Identify Fundamental Electrical Systems

*Performance Indicators:* 6.2.5-6.2.9

**CONTENT STANDARD 7.0: APPLY PLUMBING PRINCIPLES**

Performance Standard 7.1: Identify Drain, Waste, and Vent (DWV) Systems

*Performance Indicators:* 7.1.5

**CONTENT STANDARD 8.0: IDENTIFY AND APPLY MANUFACTURING PROCESSES**

Performance Standard 8.2: Utilize Layout Principles and Practices

*Performance Indicators:* 8.2.5

Performance Standard 8.3: Utilize Milling Operations

*Performance Indicators:* 8.3.5

Performance Standard 8.4: Utilize Joinery Techniques

*Performance Indicators:* 8.4.3-8.4.5

Performance Standard 8.5: Utilize Sanding Processes and Techniques

*Performance Indicators:* 8.5.5-8.5.6

Performance Standard 8.6: Demonstrate Assembly Procedures

*Performance Indicators:* 8.6.6-8.6.10

**CONTENT STANDARD 9.0: IDENTIFY HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) PRINCIPLES**

Performance Standard 9.1: Explore HVAC Opportunities and Techniques

*Performance Indicators:* 9.1.1-9.1.2

**CONTENT STANDARD 10.0: UNDERSTAND AND UTILIZE FRAMING SYSTEMS**

Performance Standard 10.1: Identify and Install Floor Systems

*Performance Indicators:* 10.1.1-10.1.11

Performance Standard 10.2: Identify and Install Wall and Ceiling Systems

*Performance Indicators:* 10.2.1-10.2.8

Performance Standard 10.3: Identify and Install Roof Systems

*Performance Indicators:* 10.3.1-10.3.8

**CONTENT STANDARD 11.0: UTILIZE EXTERIOR FINISH APPLICATIONS**

Performance Standard 11.1: Demonstrate Exterior Finishing Applications

*Performance Indicators:* 11.1.1-11.1.4

**EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS****CONTENT STANDARD 1.0: DEMONSTRATE EMPLOYABILITY SKILLS FOR CAREER READINESS**

Performance Standard 1.1: Demonstrate Personal Qualities and People Skills

*Performance Indicators:* 1.1.1-1.1.7

Performance Standard 1.2: Demonstrate Professional Knowledge and Skills

*Performance Indicators:* 1.2.1-1.2.10

Performance Standard 1.3: Demonstrate Technology Knowledge and Skills

*Performance Indicators:* 1.3.1-1.3.4

**ALIGNMENT TO THE NEVADA ACADEMIC CONTENT STANDARDS**

**English Language Arts:** Reading Standards for Literacy in Science and Technical Subjects  
Writing Standards for Literacy in Science and Technical Subjects  
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**Mathematics:** Mathematical Practices  
Algebra  
Geometry  
Numbers and Quantity

**Science:** Physical Science

\*Refer to the Building Trades in Construction Technology Standards for alignment by performance indicator.

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**COMPLEMENTARY COURSES****RECOMMENDED STUDENT PERFORMANCE STANDARDS**

Programs that utilize the complementary courses can include the following:

- Continuation course(s)
- Advanced Studies course
- Lab course(s)
- CTE Work Experience courses

**COURSE INFORMATION**

**Course Title:** Building Trades in Construction Technology Advanced Studies

**Abbr. Name:** BUILD CONST TECH AS

**Credits:** 1

**Prerequisite:** Building Trades in Construction Technology II

**CTSO:** SkillsUSA

**COURSE DESCRIPTION**

This course is offered to students who have achieved all content standards in a program and desire to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

**TECHNICAL STANDARDS**

Students have achieved all program content standards and will pursue advanced study through investigation and in-depth research.

**EMPLOYABILITY SKILLS FOR CAREER READINESS STANDARDS**

Students have achieved all program content standards and will pursue advanced study through investigation and in-depth research.

**SAMPLE TOPICS:**

- Participate in individual/team competitions
- Complete a capstone project
- Participate in an internship or job shadow opportunities
- Explore college and career opportunities
- Pursue additional industry credentials

**COURSE INFORMATION****Course Title: Building Trades in Construction Technology II LAB****Abbr. Name: BUILD CONST TECH II LAB****Credits: 1****Prerequisite: Concurrent enrollment in Building Trades in Construction Technology II****CTSO: SkillsUSA****COURSE DESCRIPTION**

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.

**COURSE INFORMATION****Course Title: CTE Work Experience – Architecture and Construction****Abbr. Name: WORK EXPER CONST****Credits: 1****Prerequisite: Level 1 course and concurrently enrolled in the Level 2 or higher course****CTSO: SkillsUSA****COURSE DESCRIPTION**

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.