CONSTRUCTION TECHNOLOGY
CURRICULUM FRAMEWORK

This document was prepared by:

Office of Career, Technical, and Adult Education
Nevada Department of Education
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Carson City, NV 89701

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INTRODUCTION

The Nevada CTE Curriculum Frameworks are a resource for Nevada’s public 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.

The intent of this document is to provide a resource to districts as they develop and implement CTE programs and curricula.

This program ensures the following thresholds are met:

- The CTE course 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 high-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.
- The CTE course and course sequence includes leadership and employability skills as an integral part of the curriculum.
- The CTE course and course sequence are part of a rigorous program of study and include sufficient technical challenge to meet state and/or industry-standards.

The CTE program components include the following items:

- Program of Study
- State Skill Standards
- Employability Skills for Career Readiness Standards
- Career Technical Student Organizations (CTSO)
- Curriculum Framework
- CTE Assessments:
  - Workplace Readiness Skills Assessment
  - End-of-Program Technical Assessment
- Certificate of Skill Attainment
- CTE Endorsement on a High School Diploma
- CTE College Credit
PROGRAM TITLE: CONSTRUCTION TECHNOLOGY

STATE SKILL STANDARDS: CONSTRUCTION TECHNOLOGY

STANDARDS REFERENCE CODE: CONST

CAREER CLUSTER: ARCHITECTURE & CONSTRUCTION

CAREER PATHWAY: CONSTRUCTION

PROGRAM LENGTH: 3 LEVELS (L1, L2, L3C)

PROGRAM ASSESSMENTS: CONSTRUCTION TECHNOLOGY WORKPLACE READINESS SKILLS

CTSO: SKILLSUSA

GRADE LEVEL: 9-12

AVAILABLE INDUSTRY CERTIFICATIONS/LICENSES PROVIDERS: OSHA 10 HOUR - OSHA CORE - NCCER CONSTRUCTION TECHNOLOGY - NCCER

PROGRAM PURPOSE

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

The program includes the following state standards:

- Nevada CTE Skill Standards: Construction Technology
- Employability Skills for Career Readiness
- Nevada Academic Content Standards (alignment shown in the Nevada CTE Skill Standards):
  - Science (based on the Next Generation Science Standards)
  - English Language Arts (based on the Common Core State Standards)
  - Mathematics (based on the Common Core State Standards)
- 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.*

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 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 and has a designated level. Complete program sequences are essential for the successful delivery of all state standards in each program area.

<table>
<thead>
<tr>
<th>COURSE NAME</th>
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<td>Construction Technology III</td>
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</table>

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 and has a designated level. A program does not have to utilize all of the complementary courses in order for their students to complete their program of study. Complete program sequences are essential for the successful delivery of all state standards in each program area.

<table>
<thead>
<tr>
<th>COURSE NAME</th>
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<tr>
<td>Construction Technology Advanced Studies*</td>
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</table>

*Complementary Courses

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 by the letter “C”. (e.g., Level = L3C) (Paragraph (d) of Subsection 1 of NAC 389.800)

**End-of-Program Technical Assessment**

An end-of-program technical assessment has been developed 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 by the letter “C”. (e.g., Level = L3C) (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) successful completion of a CTE course of study in a program area, 2) successful 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 COURSE:
RECOMMENDED STUDENT PERFORMANCE STANDARDS

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<th>COURSE TITLE:</th>
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COURSE DESCRIPTION
This course will introduce students to the world of construction. Through a hands-on approach, each student will develop basic understanding in the areas of construction: safety, blueprint reading, framing, site layout techniques, floor systems, and wall systems. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course.

TECHNICAL STANDARDS

CONTENT STANDARD 1.0: IDENTIFY LAB ORGANIZATION AND SAFETY PROCEDURES
Performance Standard 1.1: Demonstrate General Lab Safety Rules and Procedures
  Performance Indicators: 1.1.1-1.1.19
Performance Standard 1.2: Identify and Utilize Hand Tools
  Performance Indicators: 1.2.1-1.2.5
Performance Standard 1.3: Identify and Utilize Power Tools and Equipment
  Performance Indicators: 1.3.1-1.3.5

CONTENT STANDARD 2.0: PERFORM GENERAL CONSTRUCTION SKILLS
Performance Standard 2.1: Demonstrate Print Reading Practices
  Performance Indicators: 2.1.1-2.1.4, 2.1.6
Performance Standard 2.2: Apply Math Skills to Construction Applications
  Performance Indicators: 2.2.1-2.2.9
Performance Standard 2.3: Utilize Materials Handling Techniques
  Performance Indicators: 2.3.1-2.3.2, 2.3.5
Performance Standard 2.4: Explore Construction Career Opportunities
  Performance Indicators: 2.4.1-2.4.6

CONTENT STANDARD 3.0: APPLY SITE LAYOUT PRACTICES
Performance Standard 3.1: Perform Site Layout Techniques
  Performance Indicators: 3.1.2, 3.1.4, 3.1.7

CONTENT STANDARD 5.0: UNDERSTAND AND UTILIZE FRAMING SYSTEMS
Performance Standard 5.1: Identify and Install Floor Systems
  Performance Indicators: 5.1.1-5.1.13
Performance Standard 5.2: Identify and Install Wall and Ceiling Systems
  Performance Indicators: 5.2.1-5.2.11

CONTENT STANDARD 7.0: APPLY ELECTRICAL PRINCIPLES
Performance Standard 7.1: Identify Electrical Safety Procedures
  Performance Indicators: 7.1.1-7.1.5
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
   Geometry-Modeling with Geometry
   Geometry-Geometric Measurement and Dimension

* Refer to the Construction Technology Standards for alignment by performance indicator
# CORE COURSE:  
**RECOMMENDED STUDENT PERFORMANCE STANDARDS**

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**COURSE DESCRIPTION**

This course is a continuation of Construction Technology I. This course provides intermediate construction students with knowledge and skills in material handling, surveying, site development, concrete, masonry, roof systems, and electrical systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.

## TECHNICAL STANDARDS

### CONTENT STANDARD 2.0 : PERFORM GENERAL CONSTRUCTION SKILLS

Performance Standard 2.1 : Demonstrate Print Reading Practices  
  - Performance Indicators : 2.1.5, 2.1.7  
Performance Standard 2.3 : Utilize Materials Handling Techniques  
  - Performance Indicators : 2.3.3-2.3.4

### CONTENT STANDARD 3.0 : APPLY SITE LAYOUT PRACTICES

Performance Standard 3.1 : Perform Site Layout Techniques  
  - Performance Indicators : 3.1.1, 3.1.3, 3.1.5-3.1.6

### CONTENT STANDARD 4.0 : UNDERSTAND THE PROPERTIES AND UTILIZATION OF CONCRETE AND MASONRY SYSTEMS

Performance Standard 4.1 : Identify Concrete, Reinforcing Materials, and Forming Applications  
  - Performance Indicators : 4.1.1-4.1.8  
Performance Standard 4.2 : Apply Concrete Handling and Placing Techniques  
  - Performance Indicators : 4.2.1-4.2.7  
Performance Standard 4.3 : Explore the Masonry Industry  
  - Performance Indicators : 4.3.1-4.3.4  
Performance Standard 4.4 : Apply Advanced Masonry Installation Techniques  
  - Performance Indicators : 4.4.1-4.4.8

### CONTENT STANDARD 5.0 : UNDERSTAND AND UTILIZE FRAMING SYSTEMS

Performance Standard 5.3 : Identify and Install Roof Systems  
  - Performance Indicators : 5.3.1-5.3.10

### CONTENT STANDARD 7.0 : APPLY ELECTRICAL PRINCIPLES

Performance Standard 7.2 : Identify Fundamental Electrical Systems  
  - Performance Indicators : 7.2.1-7.2.13

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Construction Technology  
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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
   Numbers & Quantity-Quantities
   Algebra-Reasoning with Equations and Inequalities
   Geometry-Geometric Measurement and Dimension

* Refer to the Construction Technology Standards for alignment by performance indicator
CORE COURSE:
RECOMMENDED STUDENT PERFORMANCE STANDARDS

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<td>WORKPLACE READINESS SKILLS</td>
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<td>CTSO:</td>
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COURSE DESCRIPTION
This course is a continuation of Construction Technology II. This course provides advanced construction students with knowledge and skills in plumbing, stair layout, HVAC, and exterior applications. Through hands-on projects, students develop technical skills that are used throughout the construction industry. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

TECHNICAL STANDARDS

CONTENT STANDARD 5.0 : UNDERSTAND AND UTILIZE FRAMING SYSTEMS
Performance Standard 5.4 : Identify and Install Basic Stair Systems
  Performance Indicators : 5.4.1-5.4.8

CONTENT STANDARD 6.0 : UTILIZE EXTERIOR FINISH APPLICATIONS
Performance Standard 6.1 : Demonstrate Roofing Applications
  Performance Indicators : 6.1.1-6.1.6
Performance Standard 6.2 : Demonstrate Exterior Finishing Applications
  Performance Indicators : 6.2.1-6.2.11

CONTENT STANDARD 8.0 : APPLY PLUMBING PRINCIPLES
Performance Standard 8.1 : Identify Drain, Waste, and Vent (DWV) Systems
  Performance Indicators : 8.1.1-8.1.5
Performance Standard 8.2 : Identify and Utilize Plastic Pipe and Fittings
  Performance Indicators : 8.2.1-8.2.9
Performance Standard 8.3 : Identify and Utilize Copper Pipe and Fittings
  Performance Indicators : 8.3.1-8.3.7

CONTENT STANDARD 9.0 : IDENTIFY HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) PRINCIPLES
Performance Standard 9.1 : Explore HVAC Opportunities and Techniques
  Performance Indicators : 9.1.1-9.1.4
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
Speaking and Listening

Mathematics: Mathematical Practices

Science: Nature of Science

* Refer to the Construction Technology Standards for alignment by performance indicator
COMPLEMENTARY COURSE(S):

Programs that utilize the complementary courses can include the following courses. The Advanced Studies course allows for additional study through investigation and in-depth research.

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<tr>
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<tr>
<td>CTSO:</td>
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</table>

**COURSE DESCRIPTION**

This course is offered to students who have achieved all content standards in a program whose desire is 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
- Research and present a common construction task or topic
- Participation in an internship or job shadow opportunities
- Explore college and career opportunities
- Investigate alternative green construction/energy
- Explore commercial and industrial construction career opportunities (e.g., safety director, general contractor, supervisors, sub-contracting)
Programs that utilize the complementary courses can include the following courses. The lab courses allow additional time to be utilized in developing the processes, concepts, and principles as described in the classroom instruction. The standards and performance indicators for each lab course are shown in the corresponding course listed in the previous section.

### Course: Construction Technology II LAB

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**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: Construction Technology III LAB

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**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.