

The changing landscape of CTE in Nevada

*A need to focus on middle-skill jobs through career
pathways of promise to close the skills gap*

Elements for Success and Accountability in the Design of a Standards Based System

- Graduate from high school with demonstrated proficiency in:
 - Academic Content
 - Technical Content
 - Employability Skills (Workplace Behaviors)

.... To prepare for first-level postsecondary credentials and beyond

NEVADA CAREER CLUSTERS & PROGRAM ALIGNMENT

Agriculture, Food & Natural Resources

Agricultural Mechanics Technology
Agriculture Business Systems
Agriculture Leadership, Communication & Policy
Animal Science
Environmental Management
Floriculture Design & Management
Food Science Technology
Landscape Design & Management
Natural Resources & Wildlife Management
Ornamental Horticulture/Greenhouse Management
Veterinary Science

AGRICULTURE & NATURAL RESOURCES

Business, Management & Administration

Administrative Services
Business Management
Finance
Accounting & Finance
Marketing, Sales & Services
Entrepreneurship
Marketing
Sports & Entertainment Marketing

BUSINESS & MARKETING EDUCATION

Arts, A/V Technology & Communication

Fashion, Textiles & Design
Graphic Design
Interior Design
Photography
Radio Production
Theatre Technology
Video Production
Information Technology
Animation
Computer Science
Digital Game Development
IT Networking
IT Service & Support
Web Design & Development

INFORMATION & MEDIA TECHNOLOGIES

Architecture & Construction

Architectural Design
Construction Technology
Drafting & Design
Furniture & Cabinetmaking
Heating, Ventilation, Air Conditioning, & Refrigeration

Manufacturing

Electronic Technology
Machine Tool Technology
Manufacturing Technologies
Mechanical Technology
Metalworking
Welding Technology

Science, Technology, Engineering & Mathematics

Aerospace Engineering
Architectural & Civil Engineering
Electrical Engineering
Energy Technologies
Environmental Engineering
Mechanical Engineering

Transportation, Distribution & Logistics

Automotive Service Technician
Automotive Technology
Aviation Maintenance Technician
Aviation Technology
Collision Repair Technology
Diesel Technology

SKILLED & TECHNICAL SCIENCES

COLLEGE & CAREER READINESS

EDUCATION, HOSPITALITY & HUMAN SERVICES

Education & Training

Early Childhood Education

Hospitality & Tourism

Baking & Pastry
Culinary Arts
Hospitality & Tourism

Human Services

Cosmetology
Family & Consumer Sciences
Foods & Nutrition
Human Development

HEALTH SCIENCE & PUBLIC SAFETY

Health Science

Biomedical
Dental Assisting
Emergency Medical Technician
Health Information Management
Medical Assisting
Nursing Assistant
Pharmacy Practice
Respiratory Therapy
Sports Medicine

Law, Public Safety, Corrections & Security

Criminal Justice
Emergency Telecommunications
Fire Science
Forensic Science
Law Enforcement



Career & Technical Education

Student Definitions

- Enrollee
- Participant
- Concentrator (2 credits earned)
- Completer (3 credits earned - completes sequence)

Programs of Study

Issued: 12/12/12

	<p>Recommended Program of Study for: IT-Networking</p>				
Career Cluster: Information Technology			Career Pathway: Network Systems		
9th Grade	10th Grade	11th Grade	12th Grade	Postsecondary	
English I	English II	English III	English IV	College of Southern Nevada Great Basin College Nevada State College Truckee Meadows Community College University of Nevada, Las Vegas University of Nevada, Reno Western Nevada College	
Algebra I	Geometry I	Algebra II	Senior Level Math Course		
Biology	Chemistry or Geoscience	Junior Level Science Course	Elective ¹		
Health / Computer Literacy	World History	US History	US Government		
Physical Education	Physical Education	Foreign Language ² or Elective ¹	Foreign Language ² or Elective ¹		
IT Networking I	IT Networking II	IT Networking III	IT Networking Advanced Studies	Career and Technical Student Organizations	
Work-Based Learning		Secondary	-- Articulation --	Postsecondary	
Job Shadowing Internship / Work Experience Career Day / Fair Field Trips / Guest Speakers		IT Networking I IT Networking II IT Networking III	Up to 16 credits at College of Southern Nevada Up to 3 credits at Great Basin College (subject to change)	SkillsUSA	
CTE Assessments³		Available Industry Certifications		High Wage - High Skill - High Demand Careers⁴	
End of Program Technical Assessment for IT-Networking		<u>Certification</u> Network + CISCO Certified Networking Associate (CCNA) Microsoft Technology Associate (MTA)		Network Administrator Network Technician Information Systems Administrator	
Workplace Readiness Skills Assessment (for Employability Skills Standards)		<u>Provider</u> CompTIA CISCO Microsoft		Technical Support Specialist Network Architect Security Analyst	

This Program of Study is based upon the requirements needed for an Advanced Diploma. Academic course names may vary among school districts. All students must pass the high school proficiency exams to qualify for any high school diploma.

¹ Electives may include arts and humanities courses or other career and technical education courses that relate to the program of study.

² Foreign Language courses are recommended if a student is planning on entering a university. (See individual university admission policies)

³ CTE Assessments will be administered during the completion level CTE course.

⁴ For additional career and employment information visit <http://www.nvcis.intocareers.org/> and <http://www.NevadaYouth.org>

Employability Skills for Career Readiness

Student knowledge and skills for proper workplace behaviors

Personal Qualities & People Skills

- ☐ Positive Work Ethic
- ☐ Integrity
- ☐ Teamwork
- ☐ Self-Representation
- ☐ Diversity Awareness
- ☐ Conflict Resolution
- ☐ Creativity & Resourcefulness

Technology Knowledge & Skills

- ☐ Job-Specific Technologies
- ☐ Information Technology
- ☐ Internet Use & Security
- ☐ Telecommunications

Professional Knowledge & Skills

- ☐ Speaking & Listening
- ☐ Reading & Writing
- ☐ Critical Thinking & Problem Solving
- ☐ Health & Safety
- ☐ Organizations, Systems, & Climates
- ☐ Lifelong Learning
- ☐ Job Acquisition & Advancement
- ☐ Time, Task, & Resource Management
- ☐ Mathematics
- ☐ Customer Service

New Program Completion Requirements

Nevada Administrative Code 389.800

- **Defined course sequences**
- **Defined end-of-program assessment upon completion of the course sequence**
- **Defined employability skill standards and state assessment**
- **State Certificate of Skill Attainment replaces requirements for local competency certificates**
- **CTE endorsement on the diploma aligned to State Certificate**

Student Credentials/Certifications

Nevada Administrative Code 389.815

- **Certificate of Skill Attainment**
- **Endorsement on diploma**
- **Certificate for passing the state assessment for employability skills**


Certificate of Skill Attainment

Information Technology-Networking

This certifies that

has successfully completed the high school program of study according
to state standards to support advancement to postsecondary education
and job training in a related career field.

This certificate issued in the year two thousand and fifteen.



Superintendent of Public Instruction

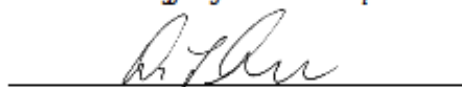


President of the State Board of Education





*Executive Director of the
Governor's Office of Economic Development*



*Director of the
Department of Employment, Training & Rehabilitation*

CTE Endorsement on the Diploma



Employability Skills Certificate



WORKPLACE READINESS SKILLS

Employability standards
endorsed by the
educational governing board
of the following states:

VIRGINIA
NEVADA
IDAHO
MAINE



National Workplace Readiness Skills Certification

Awarded to

on April 23, 2014

for

Mastery of the

Industry Certified Workplace Readiness Skills

Timothy Withee
Executive Director, CTECS

CTE assessment Results

End-of-Program Assessment Results

	2013-14	2014-15
Completers	5,136	6,158
Participation	4,781	5,848
Participation Rate	93%	95%
Pass Rate	56.7%	55.4%

Workplace Readiness Assessment Results

	2013-14	2014-15
Completers	5,399	5,588
Participation	5,091	5,336
Participation Rate	94.2%	95.5%
Pass Rate	83.1%	83.6%

Certificate of Skill Attainment

- ❑ 3.0 GPA in core course sequence
- ❑ Pass the end-of-program technical assessment
- ❑ Pass the workplace readiness assessment

Note

- ❑ *Certificate qualifies the student to earn the CTE diploma endorsement*
- ❑ *Certificate and endorsement qualify students for postsecondary articulated credit*

State Certificates of Skill Attainment

3-Year Comparison for Certificates Earned

	2012-13*	2013-14	2014-15
Students Eligible	2,924	5,136	6,158
Certificates Awarded	706	2,051	2,433
Certificate Award Rate	24.2%	39.9%	39.5%

** Assessment system under development*

Policy Changes for CTE College Credit (Tech Prep Articulated Credit)

- Aligns articulated credit to the complete program
- Aligns articulated credit to the Certificate of Skill Attainment and endorsement on the diploma
- Statewide articulation agreements = 102 to date

	College of Southern Nevada	Great Basin College	Truckee Meadows CC	Western Nevada College
State Agreements	37	24	30	11

Secondary CTE Outcomes

Office of Career Readiness, Adult Learning & Education Options

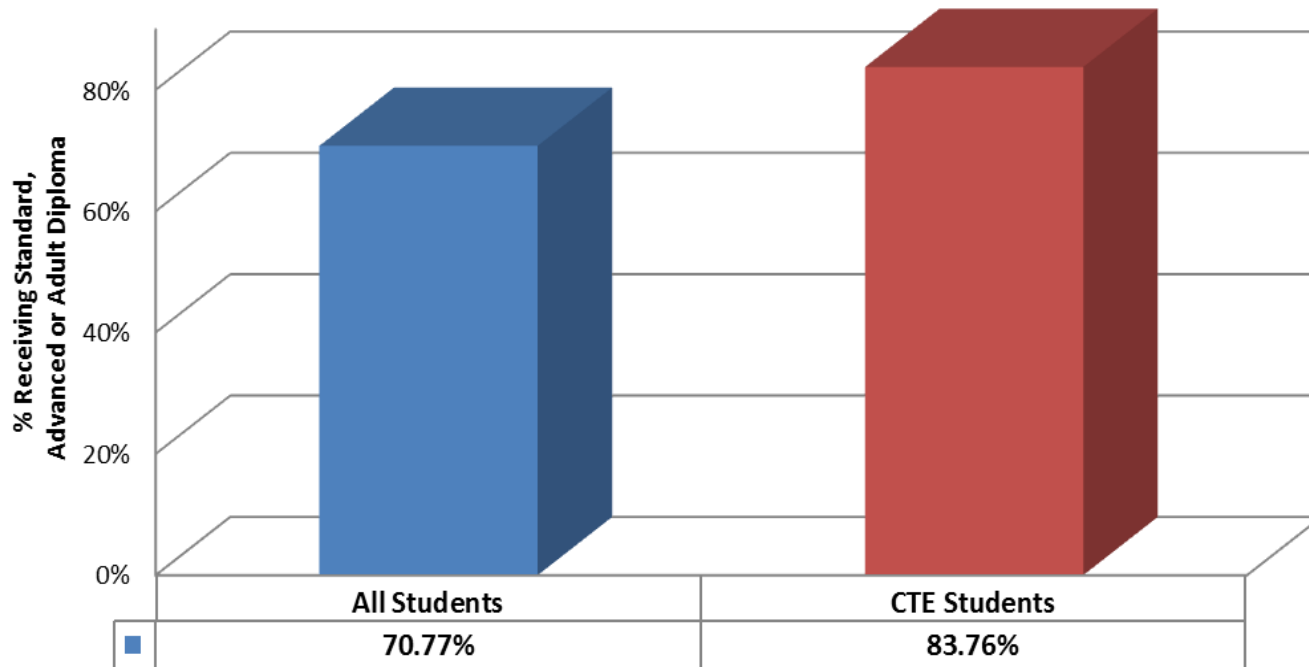
Strategic Goal:

By 2020, 11,000 students will complete a CTE program of study and 50% of the completers will earn the Nevada Certificate of Skill Attainment

Year 1: 6,208	Year 2: 7,139	Year 3: 8,209	Year 4: 9,440	Year 5: 10,856
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Importance of CTE Program Completers

**Nevada High School Cohort Graduation Rate for all Students and
for CTE Students, Graduating Class of 2015**



A foundation to build upon

- ❖ Program completion defined in measurable terms
- ❖ Program completion is incentivized through recognition and CTE College Credit
- ❖ Postsecondary credentials more clearly articulated
- ❖ State-level linkages to business and industry and economic development are growing