

The question:

What is the future for Career and Technology training opportunities in the Verde Valley?

The logo for VACTE, featuring the word "VACTE" in a bold, white, sans-serif font with a stylized checkmark-like shape above the 'V'. The background is dark with some light streaks.

Valley Academy
For
Career & Technology Education

The logo for Yavapai College CTEC, featuring the text "Yavapai College" and "CTEC" in a white, sans-serif font on a dark red, textured background.

Camp Verde High School

Mingus Union High School

Sedona Red Rocks High School

**Adults seeking career and
technical education training living
in Sedona and the Verde Valley**

If at first, the idea is not absurd, then there is no
hope for it. ~Albert Einstein

SECOND EDITION

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PART I: CAREER AND TECHNOLOGY DISTRICTS CREATED IN 1990

Joint Technical Education Districts (JTEDs) were created by Statute in 1990 and given the “specific to the sole purpose of expanding and enhancing Career and Technical Education.” Arizona Revised Statutes 15-391/15-396. The legislation creates the option for school districts to join together to form an "umbrella" or "overlay" district that provides Career and Technology Education to High School students within the geographic boundaries of the member districts. JTED's are Public High School Districts.

In 1991 there was one JTED, the- East Valley Institute of Technology. Currently there are 13 JTED's in 102 School Districts and 164 High Schools state-wide. There is the potential for number 14 this fall. According to the Morrison Institute Report of April, 2013, *CTE on the Rise*, they deliver 88 percent of all high school CTE classes in the state.

The CTE Division of the Arizona Department of Education (ADE) oversees program delivery in high schools and adult education settings. The state has developed technical standards that specify topics and areas to be taught in each program and approves new and emerging programs. Every two years, the CTE division reviews the CTE curriculum offered in Arizona high schools.

JTEDS are governed by an elected board and operate under the oversight of the State of Arizona’s ADE’S Career and technical education division. JTEDS operate in several models:

Physical facility central campus sites.

Partnerships with local Community Colleges.

Satellite programs on member district's school campus.

JTEDS deliver CTE classes in three ways at no additional cost to students: through classes that are three periods or longer on a central JTED campus and through classes at the member high schools, which are called "satellite" classes. Satellites typically meet one or two periods.

FUNDING

JTED's are funded by an ADM (Average Daily Membership) formula that provides money for every qualified "unduplicated" CTE Student. The funding criteria is specific and is contained in ARS §15-393.

JTED's are unique because local taxpayers only pay \$.05 on the secondary assessed valuation of their property. The State provides the remaining funding. JTED's may only levy a property tax of five cents per one hundred dollars of assessed valuation (ARS 15-393(f)).

JTED's do not receive transportation miles. They are allowed to bond.

Satellite member districts receive funding reimbursement for services that "shall not exceed the cost of the services provided." (ARS 15-3931.9). Satellite member districts "shall

use . . . monies. . . to supplement and not supplant base year CTE courses and are directly related." (ARS 15-393. D.9).

ANNUAL REPORTING REQUIREMENTS

All JTEDs must submit an annual report to the Joint Legislative Budget Committee. The report must include average daily membership, approved program and course lists, graduation rates, program completers, course costs, numbers and percent of students who pass the state examination, and career placement. ARS 15-393.M.1.-8

V'ACTE AND MEMBER SCHOOLS

Starting with the 2012-13 school year, school sites must submit a "596" budget by May 15th for the following year. This budget can be revised but must be approved by the V'ACTE board before funds are dispersed.

Sites must also send monthly cash management reports to request funds for the following month. Payroll can be encumbered but all other purchases are on a reimbursement method.

Along with the cash management report (aka request for reimbursement) an expenditure report and Purchasing Order pay history report for the month must be submitted.

Any budget remaining at the end of the year must have a written plan explaining why the JTED is carrying money forward. This written plan must be approved by the V'ACTE board. If there is no written plan in place, the unused funds in the budget are used to reduce the next year's allocation.

PROGRAMS

Currently there are 74 programs approved by the Arizona Department of Education Career and Technical Education Division. JTED programs may include: Agriculture, Automotive Technologies, Business Education, Certified Nursing Assistant, Construction, Cosmetology, Graphic Design, Engineering Sciences, Fire Science, Drafting, Law Enforcement, Manufacturing, Massage Therapy, Photography, and Welding.

DUAL ENROLLMENT

Arizona has a statewide dual enrollment policy that allows high school students to take certain CTE courses that count for both high school graduation requirements and community college credit. These allow community college faculty to teach high school courses (either at the high school or the college location) that count for credit at both the high school and community college level.

For example, high school students on the West side of the County enrolled in a program at CTEC located on the Prescott airport who live in the Mountain Institute JTED (MI JTED) district can potentially earn an associate's degree in several areas by the time they graduate from high school. The MI JTED pays an educational service fee to Yavapai Community College to cover the cost of a student taking a course at CTEC.

Part II: V'ACTE | VALLEY ACADEMY FOR CAREER & TECHNOLOGY EDUCATION – HISTORY & SCOPE

V'ACTE CREATED

In response to the 1990 legislation, citizens in Sedona and the Verde Valley voted in 2000 to create the Valley Academy for Career & Technology Education (V'ACTE). It serves Camp Verde, Clarkdale, Cottonwood, Jerome, Sedona and the unincorporated areas adjacent to these cities and towns. It is also available for use by Charter schools such as the American Heritage Academy located in Cottonwood. It began operation in 2001. It is one of 13 JTEDS in Arizona.

V'ACTE GOVERNING BOARD

V'ACTE is directed by a volunteer five-member board of elected officials, who meet regularly on the 4th Wednesday of the month.

Members of the board are elected from the geographic area in which they reside. The V'ACTE Governing Board is a policy setting board following the same rules and regulations as all public school district governing boards. The elected board members each serve a four-year term.

(October, 2014) Steve Dockray is president of the Governing Board. Other Governing Board members include Mr. Tom Moore, Mr. Stacey Barker, Ms. Charlene Day, and Mr. Leland Wieweck. Ms. Lois Lamer has been the Chief Executive Officer of V'ACTE since 2011. She is assisted by six staff members.

DUAL ENROLLMENT FOR NURSING

A Certified Nursing Assistant program has existed since 2003 on the East side of the County and there has been concurrent/dual enrollment since 2006. Currently it is housed at the Verde Valley Medical Center. The Community College announced at the June, 2014 that its Allied Health program will begin a concurrent enrollment with V'ACTE for the Nursing Assistant program on the Verde Campus in the spring, 2015. It is estimated that 20 students will enroll on the Verde Campus.

V'ACTE PROGRAMMING 2014-15

V'ACTE offers the following programs.

Camp Verde HS	Mingus HS	Sedona HS
Animal systems	Animal systems	
Automotive technologies	Automotive technologies	
Cabinet making	Business operations and Assistant services	Business operations and Assistant services
Culinary Arts	Drafting	Digital photography
Fire service	Fire service	Fire service
Graphic/We Design	Film and TV	Film and TV
Nursing services	Nursing services	Nursing Services
Sports medicine and rehabilitation services	Sports medicine and rehabilitation services	Technical theatre
	Welding technologies	

GOAL

V'ACTE's goal is to provide multiple pathways and options to the students and communities of the greater Verde Valley after students leave High School. V'ACTE intends to provide training and career opportunities to students whether they choose to stay in the Verde Valley, or seek their future elsewhere.

PROBLEMS FACED BY V'ACTE

In 2000 V'ACTE had 15 programs, 25 instructors & 1600 students. Over the past 14 years V'ACTE has had as many as 20 programs (2008), 36 instructors (2004), and 2200 students (2006). This past year (2013-14) V'ACTE has had had 15 programs, 22 instructors, and 1500 students. The result is that V'ACTE has not expanded and to a certain extent has regressed, not progressed.

V'ACTE SUGGESTIONS FOR POSSIBLE NEW COURSES W/ COMMUNITY COLLEGE

Construction Trades – including HVAC, electricity, plumbing, masonry, carpentry.	Cosmetology – including Aesthetician, Nail Technician
Small Manufacturing	Veterinary Technician/assistant, small animal care

These programs should and could be built in conjunction with local businesses and the area High Schools, not in isolation or based just on “projected facts.”

ILLUSTRATING THE PROBLEM: FUNDING; COURSES ONLY AVAILABLE TO HIGH SCHOOL STUDENTS ON THE WEST SIDE OF THE COUNTY

V’ACTE does not receive the grant support from mining and electric companies that has made many of the programs at CTEC possible. The following are some programs that students on the West side of the County may take at CTEC.

Fundamentals of Air Traffic Control	Private Airplane ground II	Basic electricity
Air Traffic Control Procedures	Private Helicopter Ground I	Electrical apparatus
Fundamentals of ATC Radar	Private Helicopter Simulation	Introduction to robotics
Private Pilot Glider Ground	Introduction to CNC Machining/Operator	Digital circuits
Airplane Pilot Preventative Maintenance	CMC Machine Set Up	Introduction to line worker 1
Private Airplane Ground I	CNC Computer Aided Programming	Field training line worker
3-D Program and Rapid Prototyping	Introduction to Engineering	Legal and ethical issues
Human nutrition	Energy industry fundamentals	Oxy-acetylene welding
Blueprint reading	Welded metal fabrication	Arc 1
Pipe welding		Arc 2
Canine Care and Handling	Therapy and Service Dog Team Skills	Industrial Machine Mechanic program

STATE POLICY

As a matter of State policy, high schools that offer TCE programs are not allowed to enroll adults in classes. However, a community college offering essentially the same program may mix adults and high school students in the same class. CTEC has an agreement with the Mountain Institute on the West side of the County that allows it to mix adults and high school students. As a matter of practice, V'ACTE follows state guidelines on adult students enrolling and attending classes with the High School Students.

All adults in the Greater Verde Valley out of high school must travel to the Prescott airport for Career and Technical education opportunities.

PART III: SURPRISE: YAVAPAI COMMUNITY COLLEGE STEPS INTO THE CAREER AND TECHNICAL TRAINING FIELD IN A BIG WAY STARTING IN 2007

THE HISTORICAL STRUGGLE

In 1966-67 there was a fierce contest between the citizens in the Verde Valley and those in Prescott over where the first Community College would be located. The Gulf States and Industries Corporation offered \$1.5 million dollars in financing for student dormitories and a student center, an outright gift of \$100,000 for building purposes, and 165 acres of what was described as "prime land in the Clarkdale area." A site review by

Northern Arizona University recommended Clarkdale as the most desirable location for the first Yavapai Community College.

Governing Community College board member Charles Mabery argued that the Verde Valley campus would be designed to serve northern Arizona, rather than just Yavapai County. He urged the College be organized to follow a vocational, technical program to meet increasing demands in the area. Despite these arguments, Prescott was selected as the site for the Community College.

REGIONAL CAREER AND TECHNICAL EDUCATION TRAINING FACILITY AIMED AT THE VERDE VALLEY

In 2000 voters approved a \$69.5 million bond issue for the Community College. Among the many projects anticipated by the voters was construction of a Northern Arizona Regional Skills Center on the Verde Campus. The Center, dedicated in 2004, was to serve the workforce training needs of residents living in Apache, Coconino, Navajo and Yavapai counties. It was a project viewed so favorably that partial funding for the Center was provided by the U.S. Department of Commerce – Economic Development Administration.

V'ACTE BEGINS IN 2001

As noted earlier in this booklet, V'ACTE began in 2001 following a vote of the residents on the East side of the County to form a CTE district.

MOUNTAIN INSTITUTE ON WEST SIDE BEGINS IN 2008

After 2000, there were various discussions about expanding the V'ACTE district to cover the remainder of the County. This was eventually rejected and in 2008 voters on the West side of the County approved setting up the Mountain Institute as a CTE provider.

COLLEGE VOCATIONAL TRAINING MOVES TO PRESCOTT: UNINTENDED CONSEQUENCES TO FOLLOW

It took about four years for the Northern Arizona Regional Skills Center to mostly collapse and vanish from the Verde Valley. In 2006, Yavapai Community College in Prescott and Freeport-McMoRan Copper & Gold, a Phoenix-based global mining company, partnered to create a two-year apprenticeship program in diesel, industrial and electrical mechanics. Freeport-McMoRan built classrooms and paid faculty salaries for the first three years of the program.

APRIL, 2007: GOVERNING BOARD APPROVES CTEC

In April 2007 the College Governing Board authorized the purchase of a 108,000 square foot ft. building on the Prescott airport to create its Career and Technical Education Center. The building was purchased with a lease purchase financing agreement for \$5,000,000.00 with an additional \$750,000.00 to be used for future renovations. (See Governing Board Minutes, April 4, 2007 where the agreement was approved.)

FALL, 2007: CTEC OPENS AT PRESCOTT AIRPORT

CTEC was opened on the Prescott airport in the fall of 2007. It was formally dedicated with a ribbon-cutting ceremony and guided tours on February 12, 2008.

By 2008 Community College skills training associated with welding, pipe fitting, engineering, robotics, diesel repair, electrical training and dozens of other courses were in the future of CTEC or had already been established at the Prescott Airport site.

WAS THERE AN UNDERSTANDING OF THE CONSEQUENCES OF CENTRALIZATION ON V'ACTE?

It is not clear that when the Community College Governing Board decided to move forward with Career and Technology training at the Prescott airport that it had explored or fully understood the potential negative consequences to V'ACTE by its decision. For example, did it realize or appreciate the fact that Yavapai County is larger than six states of the United States? Did it fully comprehend that areas such as the Verde Valley are separated from the West side of the County by a mountain chain without public transportation to CTEC?

COMMUNITY COLLEGE INVESTS MILLIONS OF DOLLARS IN CTEC FACILITIES

Since CTEC's beginning in 2007, it has enjoyed unprecedented growth and financial support from the Governing Board. For example, in phases I and II of the 2014-2024 capital development program, the Governing Board approved \$6,597,000.00 in expenditures to upgrade CTEC.

Grants have provided additional funding for CTEC programs. For example, Yavapai College was awarded a \$1.87 million federal grant in 2012. It is used to support a new electrical line worker program with Arizona Public Service (APS), to expand the college's mining program and to strengthen its existing electrical instrumentation program.

Part IV: CONCERNS HEARD FROM VERDE VALLEY CITIZENS

COMMUNITY COLLEGE CAREER AND TECHNICAL EDUCATION TRAINING NOT AVAILABLE TO HIGH SCHOOL STUDENTS ON EAST SIDE OF THE COUNTY

There are many concerns heard throughout the Verde Valley about the failure of the Community College to consider the implications of its decision to develop CTEC. For example, education opportunities offered at CTEC are not available to high school students on the east side of Yavapai County. However, district public and charter high school students on the West side of the County in the Prescott/Prescott Valley areas have ample opportunity to take these courses and are quickly doing so.

CTEC Dean John Morgan estimated that over 200 high school students in the Prescott/Prescott Valley area may enroll in fall, 2014 in CTEC courses. Some of them may enroll in the new electric line worker certificate program. If so, it is anticipated that almost immediately after completing the two-year course, they will be hired at a substantial starting salary.

CERTIFICATES

Students on the West side of the County have the advantage that they are able to obtain training certificates in areas not available to students on the East side of the County.

CTEC TOO DISTANT FOR EASTERN COUNTY STUDENTS

CTEC is too far away from the high schools in the Verde Valley to provide reasonable access. In some cases, a round trip could take two, three or four hours just to reach the CTEC facility and return home.



NON HIGH SCHOOL STUDENTS HAVE NO REASONABLE ACCESS TO CTEC

Non-high school residents living on the East side of the County are unable to gain reasonable access to the advanced skills training program at CTEC. This is especially true for part-time workers, single mothers and fathers, the unemployed and others. Many find the remoteness from their home to CTEC too distant to travel and the road over Mingus Mountain sometimes too dangerous.



NO PUBLIC TRANSPORTATION

Adding to the barrier between the East and the West sections of the County is the fact that there is no public transportation available that students and residents. They must rely on their own mode of transportation.



NO CAMPUS BUS TRANSPORTATION

There is also no campus bus transportation available between campuses on the East and West sides of the County. There is a transportation system between Cottonwood, Sedona and Camp Verde.

JOB OPPORTUNITIES LOST



Career and technical education is all about providing job training skills. The absence of reasonable access to advanced job training opportunities has an obvious adverse impact on the lives of hundreds of residents on the East side of the County who are seeking to improve their lives, support their families, and avoid government support.

Part V: May 2014 CTEC PROGRESS REPORT

The growing strength of CTEC is illustrated by the May, 2014 report, which was prepared and presented by Dean John Morgan to the Community College Governing Board. The following is a brief summary of the report.

Programs at CTEC have doubled and tripled in size over the last five years.

Enrollment at CTEC on May of 2010 was 1,200 (using student credit hours); Enrollment on May 2014 was 5,896 (using student credit hours).

The huge jump in enrollment at CTEC is due to relevant courses, jobs, faculty, staff, and facilities.

It is now generally accepted that trade certifications average annual wages have surpassed Baccalaureate average annual wages in the United States: \$55,000 compared to \$51,000.

It is important to note that less college debt is accumulated by students in Technical Trade Certifications, which arguably creates wealth sooner.

About 25% students at CTEC are female. This is up from 13% two years ago.



Female students are performing exceptionally well in male dominated areas and are winning top honors at CTEC.



There was 100% job placement in electrical graduates for the spring 2014.

There was 100% placement of diesel graduates in spring 2014.

EMT and Paramedics are anticipating 22% national job growth over the next 6 years.



Pilot training is crucial. It is estimated that from 10,000 to 12,000 new pilots will be sought per year for the next 12 years.

CTEC's aviation program is strong.

It is also anticipated that there will be a need for 1,000 air traffic controllers per year for the next 10 years (\$112,000 average salary). CTEC has just added a new lab to train them.

Millwrights, machinists, pipefitters anticipate a 24% turnover by 2020. This represents more than 230,000 jobs that will be available.



There is a welding shortage with calls coming from Arizona to North Dakota. It is anticipated that there will be 9,500 new hires per year over the next 10 years in the United States.



The CTEC Electrical Worker program anticipates 18,000 job openings over the next five years in the southwest five state radius. Electrical workers include Line workers, Process and Instrument Control Techs, Power Plant Operators, Communications Specialists. CTEC has just installed a pole training program on the Chino Valley campus.



The Gunsmithing wait list grew too large (over four years) and has been replaced by first come, first served approach.



Mining programs with Freeport-McMoRan and ARSARCO are in good shape. Drake Cement has been hiring grads in both

electrical process control and industrial plant maintenance.



It is anticipated that there will be 13% job openings over the next six years in police, fire, and corrections. NARTA will have the largest class in years this fall as law enforcement agencies have begun to hire after the recession.

Agribusiness at the Chino Valley facility will be launching a new class focusing on Ag product marketing, harvesting and selling.

SECTION VI: COMMUNITY COLLEGE JOINS WITH JOINT TECHNICAL EDUCATION DISTRICTS ON WEST SIDE OF THE COUNTY

Experiments with JTED on the West side of the County are paying off. Here is what CTEC reported in spring, 2014:

CTEC has had great success with JTED students in welding, automotive, aviation, and pre-engineering.

Over one hundred students took and passed third party assessments this year in AWS, ASE, ISCET, HAAS CNC, and Feature Cam. They are performing on a par with, or better than, adults in their classes.

One hundred percent of Pre-engineering students went on to either universities or Yavapai Community College.

Charter Schools are now entering the JTED.
 Yavapai Community College has an entire section in pre-engineering this fall with Tri-City Prep students.

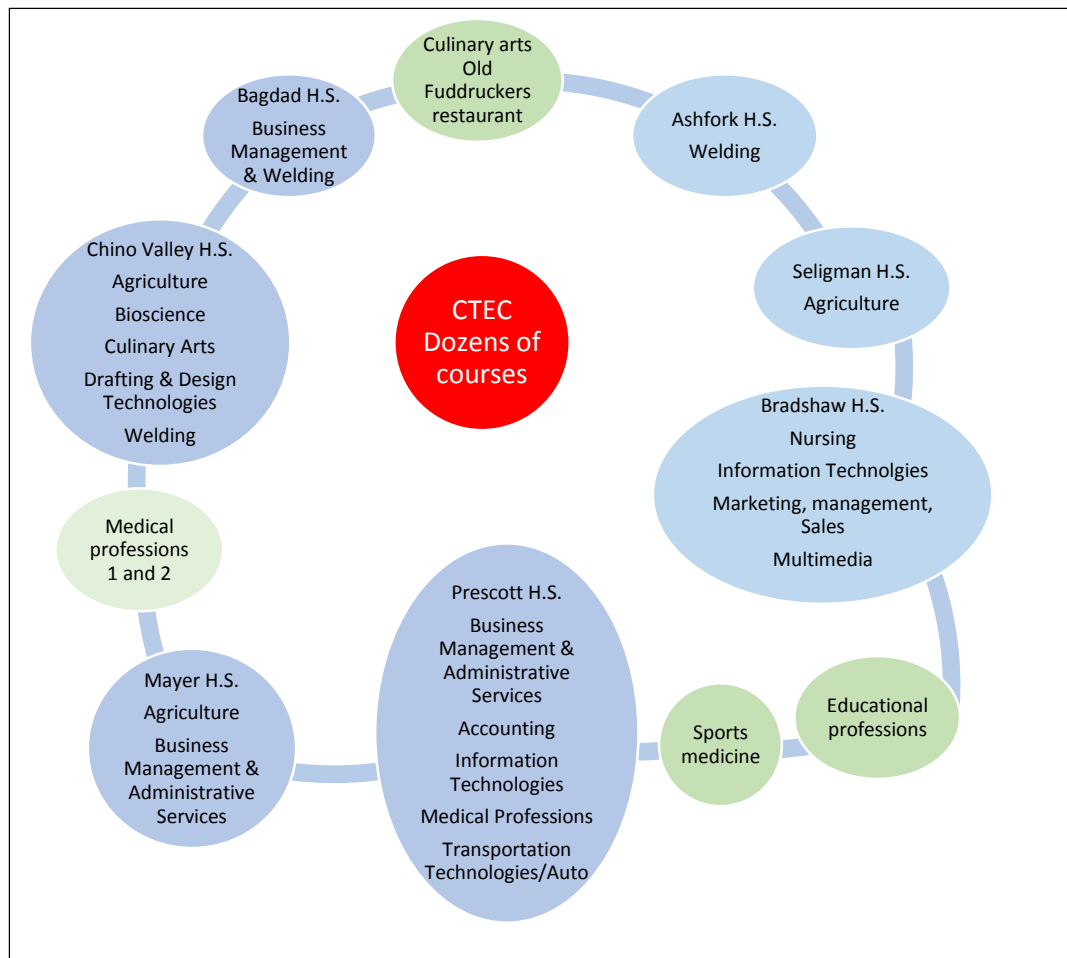
CTEC will add its Line Worker program to the JTED for fall, 2014.

CTEC will add Allied Health to the JTED program for fall, 2014.

Students attending CTEC scored the highest on state CTE secondary tests in engineering, robotics, and CNC. Students were in the top 4 in the state in automotive and welding testing.

PART VII: IDEAS, VISIONS, SOLUTIONS

Problems?	Ideas, solutions, suggestions
No public transportation	
No campus transportation	
CTEC courses not available to East County High School students	
CTEC courses not easily accessible for adults living in Sedona/Verde Valley	
Inadequate funding for expanding CTE in Sedona/Verde Valley	
Political control of Governing Board by East side of County	
Local access	
Local control	



This is the Mountain Institute model. (Green = central campus)

This booklet was written and assembled by Robert Oliphant who is solely responsible for its content. For more information, please see

<http://www.eyonyavapaicollege.com/>