

What is... Career Technical Education?

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Overview of Workshop

- What is Career Technical Education?
- What Career Technical Education is NOT
- What Career Technical Education DOES
- Academics found in Career Technical Education
- How to enroll in classes
- Questions and Answers



Questions to Consider

1. How do we keep students in school?
2. How do we keep students engaged in school?
3. How do we help students become successful after high school?



Career Technical Education

What it IS...

-a series of courses grouped together to prepare students for college AND Careers
-a method to give students 21st century skills
-a series of UC a-g approved courses
-an opportunity for all students



Career Technical Education

What it's NOT...

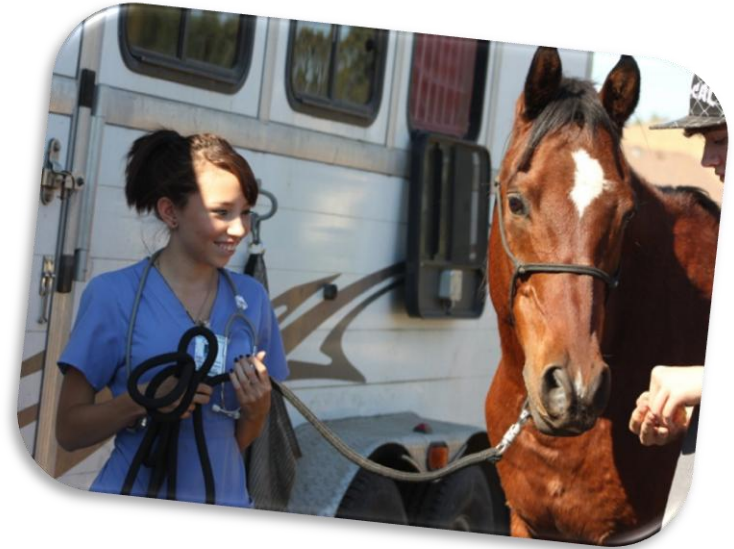
-the vocational classes my generation took (remember wood shop?)
-a refuge for kids who are NOT going to college
-a place to stick kids who don't seem to fit into a curriculum
-merely exploratory



Career Technical Education

What it DOES...

-increases student attendance
-helps close the achievement gap
-raises grade point averages
-increases graduation rates
-assists in getting a job
-paves the way to college
-engages students in school



Career Tech: 15 Industry Sectors

- Career Tech classes are organized into 15 groups of inter-related occupations and broad industries called “industry sectors”
- Each sector has two or more career pathways, for a total of 58 pathway options



Career Tech: 15 Industry Sectors

- Agriculture and Natural Resources
- Arts, Media, and Entertainment
- Building Trades and Construction
- Education, Child Development, and Family Services
- Energy and Utilities



Career Tech: 15 Industry Sectors

- Engineering and Design
- Fashion and Interior Design
- Finance and Business Industry
- Health Science and Medical Technology
- Hospitality, Tourism, and Recreation



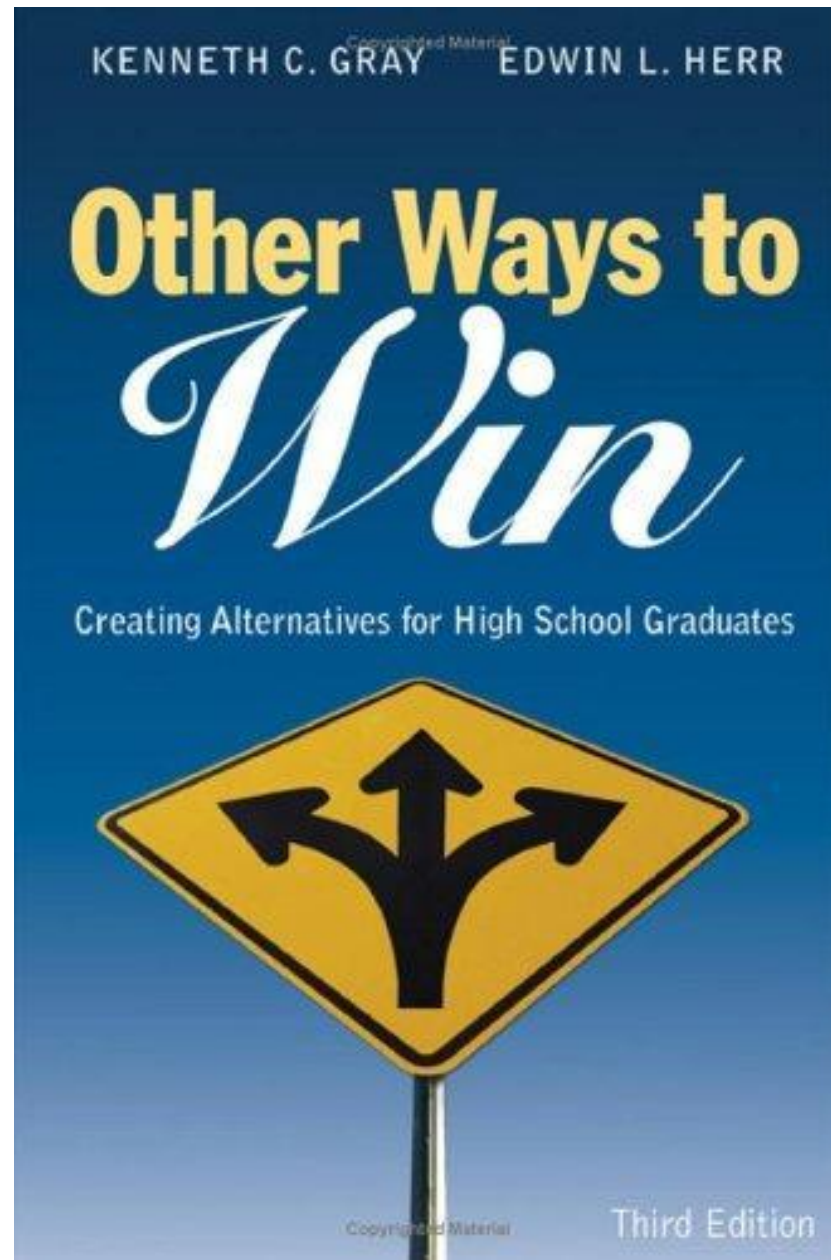
Career Tech: 15 Industry Sectors

- Information Technology
- Manufacturing and Product Development
- Marketing, Sales and Service
- Public Service
- Transportation



**The quiet dilemma
is:**

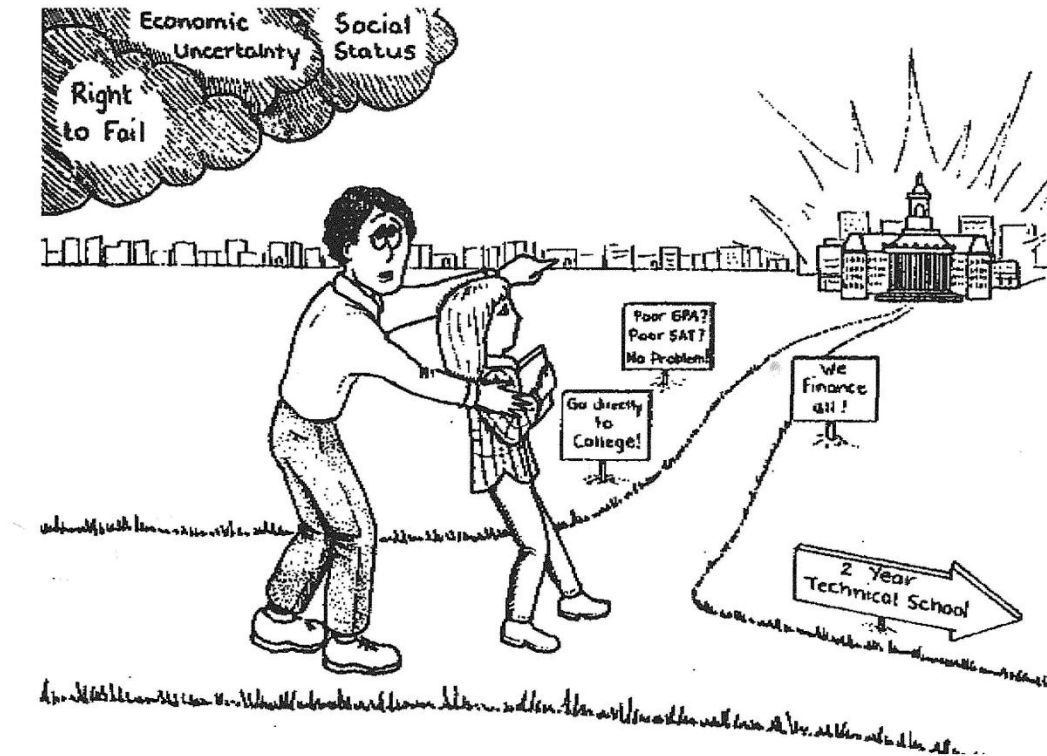
“high school dropouts without skills, high school graduates without skills, college dropouts without skills, and finally, college graduates without skills.”



The One Way Mentality

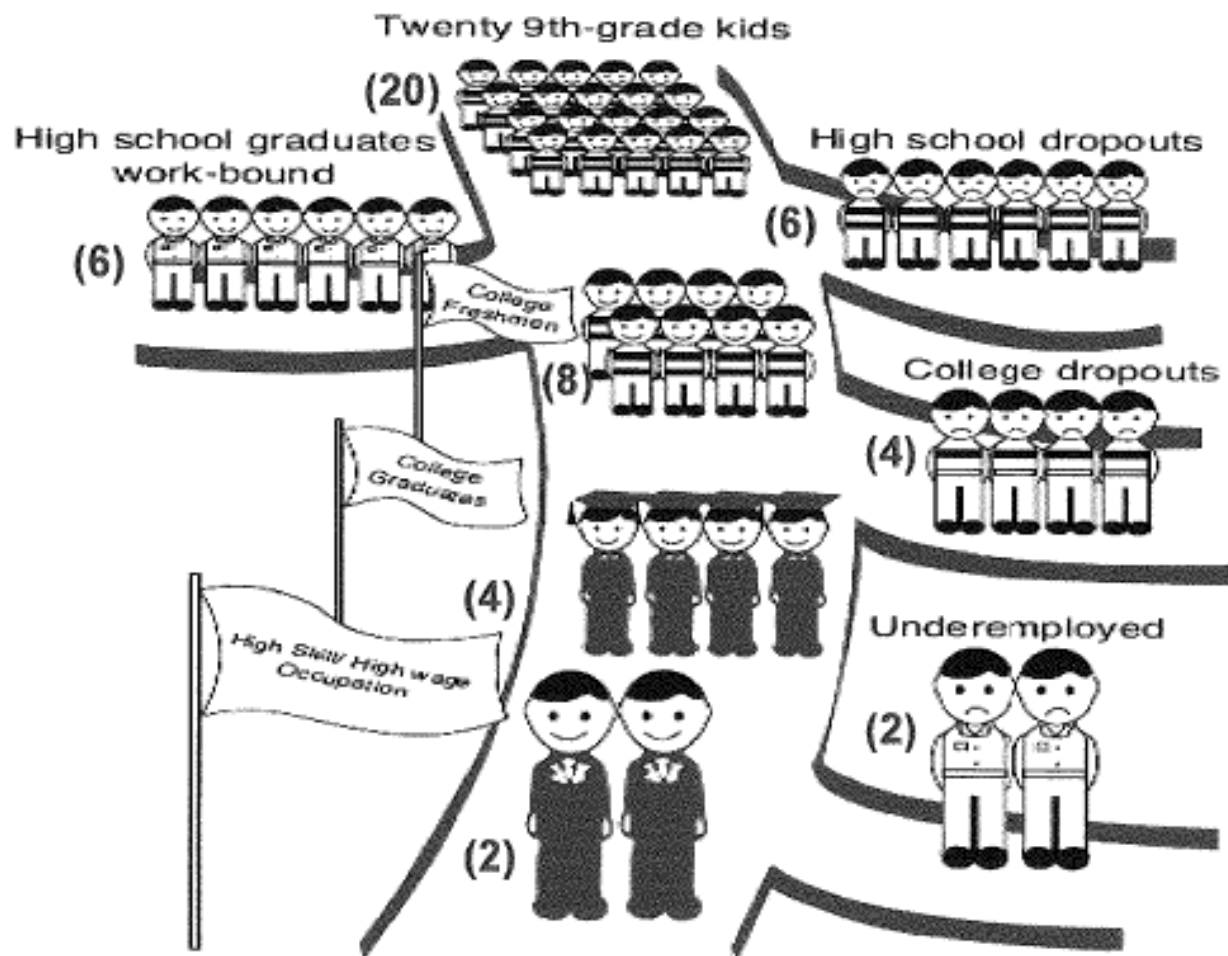
Recognizing the Forces Behind One Way to Win 25

Figure 2.1 The “Push” to Go to College



Note: Illustration by Denise Dorricott. Reprinted with permission.

The One Way to Win Paradigm (nationally)



.....Other Ways to Win by Kenneth Gray & Edwin Herr

What does “Other Ways to Win” mean?

- First, this is NOT an anti-higher education strategy
- OWW is about providing alternatives for high school students through Career Technical Education (CTE) and sequenced Career Pathways
- OWW includes post-secondary education or training when students can benefit and it makes sense
- CTE connects the curriculum with the “real world”
- CTE gives students clear goals and a plan for their post-high school life: entering the workforce with a marketable skill, attending post-secondary education, or both



California

- 1 in 4 high school students drops out!
- The economic loss to California from juvenile crime comes to **\$8.9** billion per year
- High school dropouts are twice as likely to commit crimes compared to high school graduates
- Many adult criminals began their criminal activities during their juvenile years
- A single cohort of California 12-year-old dropouts will generate...**\$10.5** billion in economic losses from adult crime over the course of their life.

California Dropout Research Project, Policy Brief 16



What research tells us...





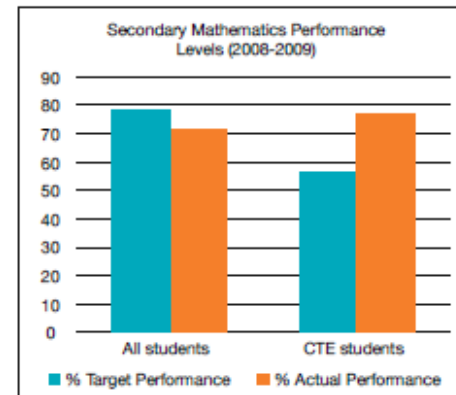
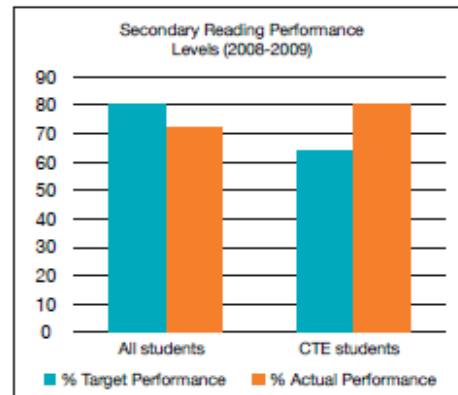
Learning that works for America

CTE™

National Association of State Directors of Career Technical Education Consortium (NASDCTE)

CTE Student Achievement

Secondary CTE Student Achievementⁱ



Postsecondary CTE Placementⁱⁱ

70 percent of CTE concentrators stayed in postsecondary education or transferred to a 4-year degree program (compared to the overall average state target of 58%) and transitioned to postsecondary education or employment by December of the year of graduation.

CTE Achievement Levelsⁱⁱⁱ

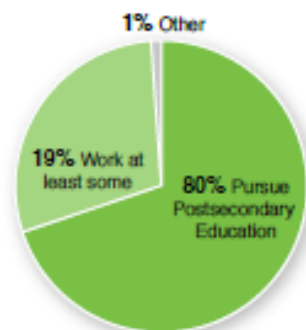
CTE students surpassed state target performance levels in the following areas (2009-2010):

CTE Indicator	Target Performance	Actual Performance
Reading/Language Arts (Secondary):	67%	72%
Mathematics (Secondary):	59%	63%
Technical Skill Attainment (Secondary):	68%	75%
Technical Skill Attainment (Postsecondary):	70%	82%



Career Technical Education (CTE) High Expectations, High Outcomes

What Do CTE Students Do After High School?



- Secondary CTE graduates who enrolled in postsecondary education within 2 years of graduating high school
- Secondary CTE graduates who have never enrolled in postsecondary education but worked within 2 years of graduating high school
- Secondary CTE graduates who never enrolled in postsecondary education or worked within 2 years of graduating high school

College-going CTE graduates:

- 4 out of 5 secondary CTE graduates pursued postsecondary education immediately after high school.¹
- More than one-quarter of secondary CTE graduates worked full-time while enrolled in postsecondary education.²
- 4 out of 5 secondary CTE graduates who entered postsecondary education immediately after high school either attained a credential or were still enrolled two years later.³
- Students who earned a CTE-related associate degree or certificate make an average of \$9,000 more per year than an associate degree-holder with a humanities or social science focus. Those with credentials in high-demand fields, such as healthcare, can average almost \$20,000 more per year.⁴

Secondary CTE Graduates Entering the Workforce:

- Of secondary CTE graduates who did not pursue postsecondary education within two years of graduating high school, 95 percent worked for pay for some time after graduating.⁵

Examples of Academics in CTE Classes

- Automotive (Physics)
- Computer Aided Design (Math)
- Culinary Arts (Math)
- Construction Technology (Geometry)
- Electrical Engineering (Science & Math)
- Law Enforcement (Science & ELA)
- Marketing & Merchandising (Math and ELA)
- Medical Records (ELA & Science)
- Veterinarian Technician (Science)
- Video Production – (English Language Arts)



Academics in Forensic Science

- Science
- English & Language Arts; Writing



Academics in Construction Technology



Unit 1: Construction Planning

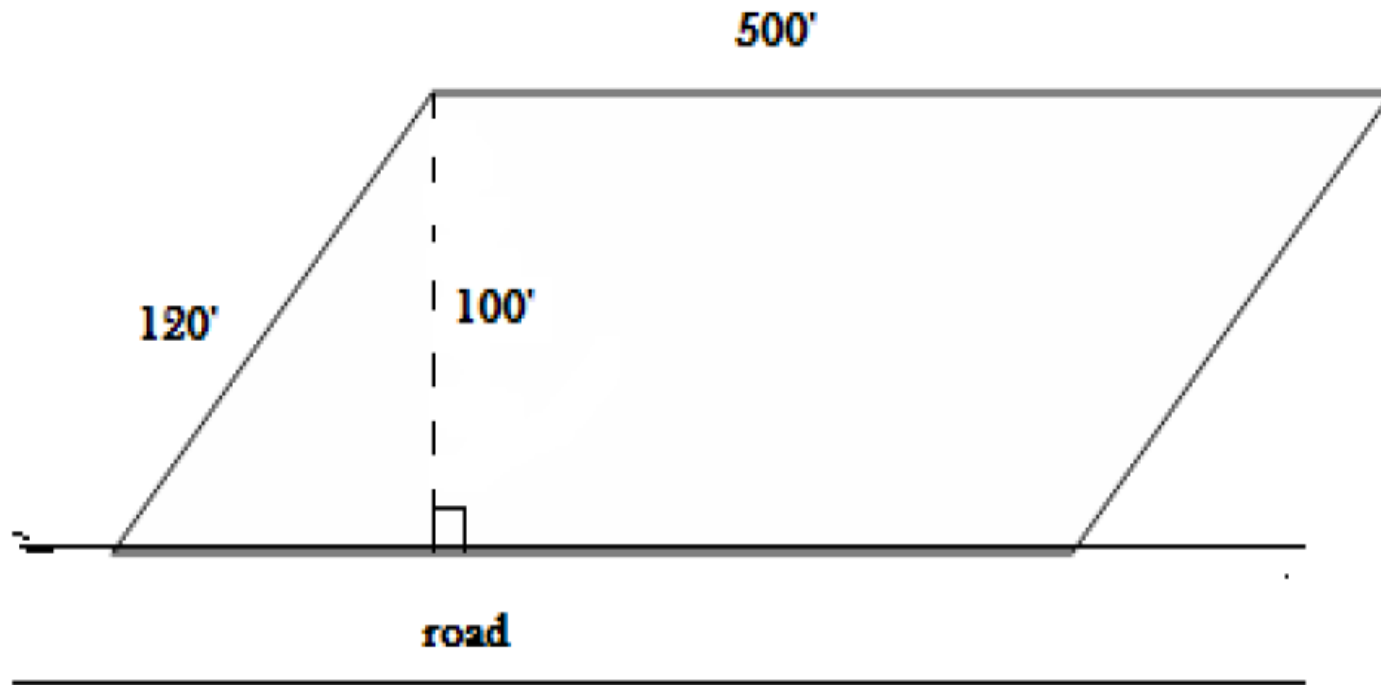
1. Construction: Architectural Appreciation and History
2. Team Building and Cooperative Group Training
3. Area of rectangles, parallelograms, triangles, trapezoids, circles, and polygons
4. Perimeter/circumference/arc lengths
5. Area of sectors
6. Polygon classifications: quadrilaterals, pentagons, hexagons, octagons, decagons
7. Construction: Sketching of 2D and 3D
8. Surface Area of prisms, pyramids, cylinders, cones, and spheres
9. Construction: Drafting Using 2D, 3D, One Point, and 2 Point Perspective
10. Similar figures: Definition, finding missing lengths
11. Similar triangles: AA, finding missing lengths
12. Construction: Blueprint Reading
13. Similarity ratio (scale factor): Using to determine if figures are similar
14. Area ratios of similar figures
15. Transformation supplement included as needed
16. ALGEBRA REVIEW: 1-3 step equation solving

Quarter 1 Project “Design a Logo”



Geometry & Critical thinking

64. You are subdividing the lot below. The county requires each lot be at least 8000 sq. feet. Decide how many lots? What are some of the concerns you would need to address to get the maximum number of lots?



Career Tech Student Organizations

- Distributive Education Clubs of America (DECA)
- Home Economics Careers and Technology (FHA-Hero)
- Future Business Leaders of America (FBLA)
- Future Farmers of America (FFA)
- Health Occupations Students of America (HOSA)
- SkillsUSA



www.metroed.net



Metropolitan Education District

760 Hillsdale Avenue, San Jose, CA

(408) 723-6400

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Preparing Students for Success!



Veterans Career Technical Training Initiative

CCOC Class Schedule

MAEP Class Schedule

MetroED Calendar

Career Technical Education

On-line Courses

Credential Program

GED Testing Center

School Calendar



MetroED Foundation

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Community Can Save Adult Education Courses



What is MetroED?

Vision and Mission Statements

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Featured Videos and News

- Annual Report
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- Videos about MetroED

MetroED is the largest career-oriented educational organization in Santa Clara County comprised of high school and adult career technical, academic and community programs. MetroED annually provides 10,000 diverse students with the skills to help them be productive, income-earning, and tax-paying contributors to Silicon Valley.



Santa Clara County
Office of Education

How to enroll?

- Contact counselor at your home school.
- Stop by to talk to a ROP/CTE teacher.
- Talk to a career and college technician at home school site.
- Review school catalog for course listings.
- Review CCOC website.



- Home
- County Board of Education
- Superintendent
- SCCOE Branches
- Resources for Teachers
- Resources for Families
- Resources for Administrators
- Public School Directory
- Job Opportunities
- SCCOE Intranet

Read our electronic newsletter

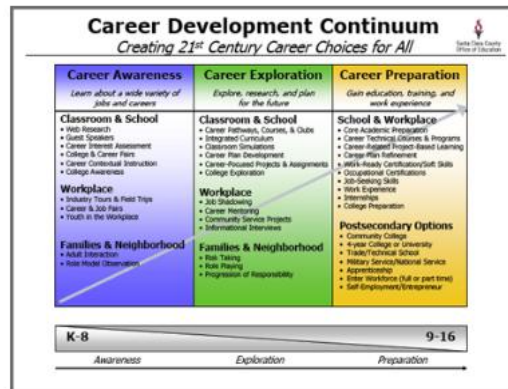


CAREER TECHNICAL EDUCATION

Creating 21st Century Career Choices for all Students

Career Technical Education (CTE) brings students, educators and employers to develop and strengthen the relationship between what's being taught in the classroom and its application in the workplace. Its programs prepare students with 21st-century skills.

- CTE is made up of 15 industry sectors, which include 58 career pathways related to all occupations.
- A series of courses grouped together integrate academic and technical training to provide students with a pathway to postsecondary education and careers.
- Some CTE classes stand alone, and others are found in California Partnership Academies, Multiple Pathway programs or Regional Occupational Programs.
- CTE engages students, increases attendance and graduation rates, helps close the achievement gap, and raises grades.



Upcoming Events



Feb 1, 2012
Engaged in School and Career Ready
[Register Now](#) **NEW!**

This workshop is designed to introduce you to career resources that can be used in core and career tech middle and high school classrooms.

CONTACT



Alyssa Lynch
Director

(408) 453-4329

[CTE Newsletters](#) **NEW!**



FEATURED LINKS



[CTE NOW! Product Order Form](#)

[August Boeger Middle School Career Exploration Program](#)



[Career Awareness Survey](#) **NEW!**

[Calendar of Events](#)

[2011 CTE Conference](#)

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