Components of a Quality CTE Program



Presented by: Differentiated Accountability Team
Florida Department of Education
Commissioner Gerard Robinson

WELCOME! BELL RINGER ACTIVITY

You need chart paper and a marker.....

- Divide your chart paper into two columns
- Label one column Vocational education and the other column Career & Technical Education
- Under the vocational ed. column, list the first three words, phrases, thoughts/memories, ideas that come to mind when you think of vocational education
- Under the CTE column, list the first three words, phrases, thoughts, ideas that come to mind when you think of career and technical education
- Post/stick your paper on a wall near you

"NEW" DIRECTION FOR CTE

"Then"	"Now"
Vocational Education	CTE
For a Few Students (non college bound)	For all Students
For a Few "Jobs" (those requiring less than an associate's degree)	For all "Careers" (requiring technical degrees, baccalaureate degrees, professional degrees)
6 to 7 "Program Areas"	17 Clusters, over 300 programs
In Lieu of Academics	Aligns/Supports Academics (integral partner in high school reform efforts)
High School Focused	Middle School and transition to postsecondary (certificate, 2 year, 4 year plus)

"While CTE is built upon the rich history and tradition of vocational education, it has adapted to meet the dynamic demands of the global economy." 1

¹Reflect, Transform, Lead: A New Vision for Career Technical Education, National Association of State Directors of Career Technical Education Consortium (NASDCTEc)

"LEARNING THAT WORKS" BY JOE KLEIN, TIME MAGAZINE 5-14-12

- Handout Copy of Article
- Number the paragraphs in the article
- > Find a shoulder partner
- Everyone will read paragraphs 1 and 2
- Presenter will provide each pair with additional assigned passage to read and correlating guiding questions
- Pairs will share questions and answers with group

THINK-PAIR-SHARE

- What do you think are the components of a quality CTE program? Write them on a stickie
- Find a partner
- Share/compare what you have written; categorize and delete any duplicates
- Post on chart paper according to categories (Qualified instructor; quality instruction; application opportunities; community support)
- Share out with group

WHAT IS A QUALITY PROGRAM?



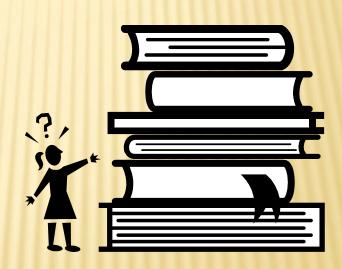
COMPONENTS OF A QUALITY PROGRAM

- Qualified, Prepared Instructor
- Quality Instruction
- Application Opportunities

Community Support



WHO IS QUALIFIED TO TEACH?



A QUALIFIED INSTRUCTOR IS:

- State/District Certified
- Industry Certified if applicable (by Statute)
- Participating in Professional Development
- A CTSO Advisor
- > A member of their Professional Organization
- Prepared to teach

WHAT IS QUALITY INSTRUCTION?



QUALITY INSTRUCTION

- Current Curriculum Frameworks/CTE syllabus
- Students have the opportunity to complete a program (usually 3 courses)
- Appropriate student/instructor ratios
- DATA Analysis/Differentiated Instruction
- Integrated Academics
- Common Board Configuration
- Appropriate Equipment/Technology/Instructional Materials
- Appropriate Classroom, Laboratory, Storage Areas
- Safe Practices

DOCUMENTS TO SELF-EVALUATE

- > Classroom Behaviors Worksheet
- Classroom Visitation Checklist
- CTE Program Evaluation
- Program Evaluation Pre-Visit Resources
- <u>http://www.fldoe.org/workforce/dwdframe</u> (scroll to last bullet under Related Documents)

QUALITY INDICATORS - LEVEL OF IMPLEMENTATION RATINGS

- Level 1 Little or No Development and Implementation
- Level 2 Limited Development or Partial Implementation
- Level 3 Operational Level of Development and Implementation
- Level 4 Exemplary Level of Development and Implementation

WHAT IS SUPPOSED TO BE TAUGHT?

Curriculum Frameworks



Florida Department of EDUÇATION















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College & Beyond

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Contracts, Grants & Procurement

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Family & Community Outreach

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Florida Colleges

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Services to Individuals with Disabilities

Services to Military Families

Welcome



Check out Commissioner Robinson's blog!

Did you know, Florida's Education Commissioner, Gerard Robinson is blogging about all sorts of things relating to education in the Sunshine State? From his experiences regarding his "Look, Listen and Learn" tour, sharing his new motto, offering parental involvement tips and showcasing international education, Commissioner Robinson wants to keep you informed of his thoughts, ideas and insights on the educational process in Florida.

Check back regularly to read and comment on his latest posts and to get informative details from guest bloggers on a variety of important topics affecting education stakeholders throughout the state.

- □ Commissioner Robinson's Blog
- □ Contact Commissioner Robinson

News

- Letter from US Dept. of Education Clarifying Inclusion Conditions of Flexibility Waiver, Feb. 27, 2012 (PDF, 458KB)
- Frequently Asked Questions about School Grade Modifications and the ESEA Waiver (Word, 48KB)
- Elementary and Secondary Education Act (ESEA) Flexibility Waiver
- ▶ Florida Named National Leader in Educator Quality

Google[™]

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Governor Rick Scott

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Commissioner Gerard Robinson

Educator Certifica Florida Educa Founda

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FCAT/Assessm

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Just Read, Flo

School Gra

Sunshine Connect

Teach in Flo

The Florida Col System Founda



















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About Us

Workforce Education is designed to meet the needs of our customers, which include students, business and industry, school districts, community colleges, community-based organizations, and correctional institutions. This area represents a significant collaboration and partnership across both private and public sectors throughout the state of Florida to improve Florida's workforce.

News & Current Events

The Weekly Web Update is sent out each Friday, as needed, to keep you informed of recent or planned updates and additions to the Career and Adult Education Web pages.

- Weekly Web Update
 - o March 2, 2012 (PDF, 109KB)
 - o February 24, 2012 (PDF, 125KB)
 - o February 17, 2012 (PDF, 123KB)
 - February 10, 2012 (PDF, 228KB)
 - o February 3, 2012 (PDF, 104KB)

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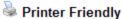








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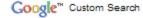
Next Generation

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Career and Technical Education Programs

Curriculum Frameworks

The Division of Career and Adult Education publishes the curriculum frameworks aligned to the Career Clusters delineated by the U.S. Department of Education. The Career Cluster frameworks pages also contain links to Community College AS/AAS and CCC frameworks. To determine in which cluster a particular program is assigned, you may view an alphabetical list of all Secondary/PSAV CTE programs (RTF, 3MB) or AS/AAS/CCC programs (RTF, 2MB).

Academic Year 2012/2013 Curriculum Frameworks By Career Cluster

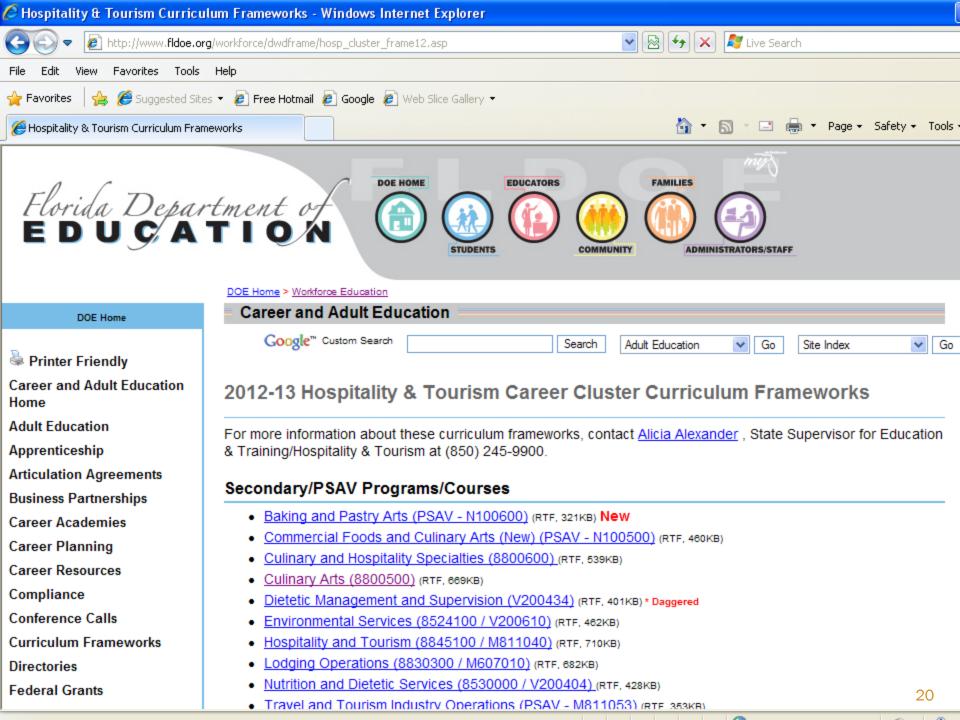
The curriculum frameworks in the following career clusters have not yet been approved by the State Board of Education and are considered draft for the 2012/2013 school year.

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communication
- Business, Management & Administration
- Education & Training
- Energy

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Related Documents

- Alphabetical List of 2012-13 Secondary/PSAV Programs (RTF, 3MB)
- Alphabetical List of 2012-13 AS/AAS/CCC Programs (RTF, 2MB)
- Alphabetical List of 2011-12 Secondary/PSAV Programs (RTF, 1MB)
- Alphabetical List of 2011-12 AS/AAS/CCC Programs (RTF, 912KB)
- Apprenticeship Programs 2012-2013 (RTF, 268KB)
- Articulation Agreements Statewide
- Basic Skills Document 2010-2013 (RTF, 2MB)
- Basic Skills Licensure Exemption List 2012-2013 (RTF, 210KB)
- CC and Tech Center MIS Reporting & Non-traditional Codes
- Change Document CTE 2012-13 (RTF, 2MB)
- Change Document CTE 2011-12 (RTF, 1MB)
- Course Code Directory
- COE Matrix (Excel, 466KB)
- Cooperative Education Manual (Word, 22KB)
- CTE Essential Skills
- CTE Course Level 3 Rubric (PDF, 21KB)
- Curriculum Framework Statutory Reference
- Florida Standards & Benchmarks Design Guide (RTF, 270KB)
- New Program Request Form (RTF, 274KB)
- Practical Arts CTE Courses (PDF, 107KB)
- Program Length Document (CC) 2012-13 (RTF, 4MB)
- Program Length Document (PSAV) 2012-13 (RTF, 8MB)
- SCNS Matrix 2011-12 (Excel, 280KB)
- SCNS Matrix 2012-13 (Excel, 298KB)
- State CTE Plan for Youth in Juvenile Commitment
- Teacher CTE Certifications (Excel, 174KB)
- Differentiated Accountability Intervene Process Tools
 - o Classroom Visitation Checklist (PDF, 43KB)
 - Classroom Behaviors Worksheet (PDF, 25KB)
 - CTE Program Evaluation (PDF, 104KB)
 - Program Evaluation Pre-Visit Resources (PDF, 21KB)



INFORMATION ON TABLE

- Program number
- CIP number (<u>Classification of Instructional Programs</u>)
- Grade level
- Standard length
- Teacher Certification
- CTSO (Career & Technical Student Organization)
- SOC Code (Standard Occupational Classification)

INFORMATION ON TABLE (CONTINUED)

- Facility Code http://www.fldoe.org/edfacil/sref.asp (State Requirements for Educational Facilities)
- Targeted Occupation List (<u>http://www.labormarketinfo.com/wec/TargetOccupationList.htm</u>)
- Perkins TSA Inventory (http://www.fldoe.org/workforce/perkins/perkins_resources. asp)
- Industry Certifications (CAPE information; Comprehensive certification list and Funding list)
 http://www.fldoe.org/workforce/fcpea/default.asp
- Statewide Articulation (http://www.fldoe.org/workforce/dwdframe/artic_frame.asp)

STANDARDS & BENCHMARKS

Standard – describes a specific behavior, action, or competency a student should be able to demonstrate based on the underlying instruction

Benchmark – description of knowledge or skill that students should acquire in order to demonstrate achievement of the standard

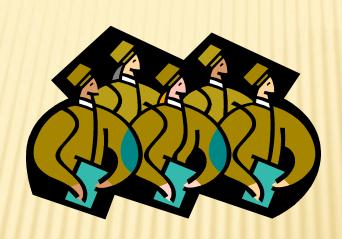
It's time for a Scavenger Hunt!!!

ACCELERATED MECHANISMS

- Academies/CAPE
- > Industry Certifications
- Articulations
- CAP Legislation



CTE PROGRAMS/ACADEMIES



CTE CAN BE.....

- > A program.....
- > An academy.....
- > A CAPE academy.....

* And any of the above can be considered STEM!

CAREER ACADEMIES

- Small, personalized learning communities within a high school that select a subset of students and teachers for a two-, three-, or four-year span.
- Involves teachers from different subjects working together as a team with common planning time.
- Students should be grouped together for several periods every day with a <u>core group of teachers</u>.
- A career academy includes the following essential elements:
- -Small learning community
- -College-prep curriculum with a career theme
- -Partnerships with employers, the community & higher education

ACADEMY MODELS

- School-Within-A-School a career academy within a larger comprehensive high school with a career focus
- Comprehensive or Technical (Wall to Wall) the entire school is structured around career academies. Every student in the school is in an academy. Academy program offerings prepare students for postsecondary opportunities as well as "the world of work" with marketable skills. Upon high school graduation each student receives a high school diploma as well as a certificate of proficiency in a specialized area of study.

CAPE (CAREER AND PROFESSIONAL EDUCATION) ACADEMIES

In 2007 the Florida Legislature passed the Career and Professional Education Act. The purpose of the Act was to provide a statewide planning partnership between the business and education communities in order to attract, expand, and retain targeted, high-value industry and to sustain a strong, knowledge-based economy.

¹Chapter 2007-216, Laws of Florida

²s. 1003.491, F.S.

CAPE ACADEMIES AND INDUSTRY CERTIFICATIONS

- A CAPE academy must offer students the opportunity to pursue an industry certification on the Comprehensive Industry Certification List (this is a "planning list" for CAPE academies)
- CAPE academies are registered with DOE annually
- Students enrolled in registered CAPE academies are identified as such through data reporting

INDUSTRY CERTIFICATIONS

- > 196 certifications on the 2011-2012 CAPE Funding List
- Student earned industry certifications are a factor in the high school (and middle school) grade calculations
- Bonus FTE is earned at .1, .2, or .3 (about \$1000 for .3) per certification earned.
- Legislation requires 80% of the bonus FTE to return to the program in which the certification was earned

2011-12 Cape Funding List:

http://www.fldoe.org/workforce/fcpea/pdf/1112icfl.pdf

2012-13 Preliminary Funding List:

http://www.fldoe.org/workforce/pdf/1213icfl.pdf

ADDITIONAL INFORMATION ON INDUSTRY CERTIFICATIONS WILL BE PROVIDED IN MODULE #2 OF THE CTE TRACK!!!!

CAPE ACADEMY STUDENT PERFORMANCE, 2010-11

Performance Indicator	Non-CAPE, No Certification	CAPE, No Certification	Non-CAPE + Certification	CAPE + Certification
Average GPA	2.46	2.58	2.79	3.00
Chronically Absent	16.3%	15.7%	11.2%	9.9%
At Least One Disciplinary Action	20.6%	20.5%	12.8%	10.9%
Dropout Rate	2.1%	0.9%	0.6%	0.3%
12th Graders Earning Standard Diploma	73.9%	85.9%	93.3%	96.1%
At Least One Accelerated Course	22.9%	25.4%	38.8%	41.2%
Bright Futures Eligible Seniors	22.4%	21.8%	31.5%	38.2%

GOLD STANDARD ARTICULATION AGREEMENTS



GOLD STANDARD ARTICULATION AGREEMENTS: THE PROCESS

- CAPE Funding List developed by AWI, WF, Inc., and DCAE
 - > 155 certifications on 2009-10 CAPE Funding List
 - > 182 certifications on 2010-11 CAPE Funding List
 - > 196 tentatively on the 2011-12 CAPE Funding list
- CTE Unit maps CAPE certifications to AS Degrees
- Negotiation Process with Florida Colleges
 - ▶ Deans ↔ Faculty
 - Academic Vice Presidents
 - Council of Presidents have endorsed the process
- Articulation Coordinating Committee
- State Board of Education

Gold Standard Career Pathways Industry Certification Articulation Agreements

Date	Code	Certification Title	Credi	CIP	AAS/AS Degree Program Title
6/15/2010	TAFLP001	Accredited Legal Secretary (ALS)	3	1507060300	Office Administration
3/26/2010	AMDDA001	ADDA Apprentice Drafter (AD)	3	1615010100	Architectural Design and Construction Technology
3/26/2010	AMDDA001	ADDA Apprentice Drafter (AD)	3	1615020200	Drafting and Design Technology
6/15/2010	ADOBE010	Adobe Certified Associate - Dreamweaver	3	1507039902	Internet Services Technology
6/15/2010	ADOBE011	Adobe Certified Associate - Flash	3	1507039902	Internet Services Technology
6/15/2010	NATEX001	Air Conditioning Service Technician	3	1615050100	Air Conditioning, Refrigeration, Heating System Technology
01/24/2012	ADESK02	Autodesk Certified User – AutoCAD	3	1615020200	Architectural Design and Construction Technology
01/24/2012	ADESK02	Autodesk Certified User – AutoCAD	3	1615020200	Drafting and Design Technology
01/24/2012	ADESK011	Autodesk Certified User – Autodesk Inventor	3	1615000001	Engineering Technology
3/26/2010	ADESK016	Autodesk Certified Associate - AutoCAD	3	1615020200	Drafting and Design Technology
7/14/2009	ADESK017	Autodesk Certified Associate - AutoCAD Architecture	3	1615020200	Drafting and Design Technology
7/14/2009	ADESK017	Autodesk Certified Associate - AutoCAD Architecture	3	1615010100	Architectural Design and Construction Technology
6/15/2010	ADESK018	Autodesk Certified Associate - AutoCAD Civil 3D	3	1715020101	Civil Engineering Technology
6/15/2010	ADESK020	Autodesk Certified Associate - Revit Architecture	3	1615010100	Architectural Design and Construction Technology
6/15/2010	ADESK021	Autodesk Certified Professional - AutoCAD	3	1615020200	Drafting and Design Technology
6/15/2010	ADESK022	Autodesk Certified Professional - AutoCAD Architecture	3	1615010100	Architectural Design and Construction Technology
6/15/2010	ADESK023	Autodesk Certified Professional - AutoCAD Civil 3D	3	1715020101	Civil Engineering Technology
6/15/2010	ADESK024	Autodesk Certified Professional - Inventor	3	1615000001	Engineering Technology
6/15/2010	ADESK025	Autodesk Certified Professional - Revit Architecture	3	1615010100	Architectural Design and Construction Technology
11/17/2009	NIASE012	Automobile-Light Truck Technician – Manual Drive Train and Axles	3	1615080300	Automotive Service Management Technology

Revise d: 2/13/2012

F.S. 1003.4295 ACCELERATION COURSES

- 1003.4295 Acceleration courses.— (1) Each high school shall advise each student of programs through which a high school student can earn college credit, including Advanced Placement, International Baccalaureate, Advanced International Certificate of Education, dual enrollment courses, career academy courses, and courses that lead to national industry certification, as well as the availability of course offerings through virtual instruction.
- (3) The Credit Acceleration Program (CAP) is created for the purpose of allowing a secondary student to earn high school credit in a course that requires a statewide, standardized end-of-course assessment if the student attains a specified score on the assessment. Notwithstanding s. 1003.436, a school district shall award course credit to a student who is not enrolled in the course, or who has not completed the course, if the student attains a score indicating satisfactory performance, as defined in s. 1008.22(3)(c)5., on the corresponding statewide, standardized end-of-course assessment. The school district shall permit a student who is not enrolled in the course, or who has not completed the course, to take the standardized end-of-course assessment during the regular administration of the assessment.
- History.—s. 5, ch. 2010-22.

APPLICATION OPPORTUNITIES

- School-based enterprises
- Experiential learning opportunities
- Career and Technical Student Organization (CTSO)

SCHOOL-BASED ENTERPRISES



SCHOOL-BASED ENTERPRISES

Project based examples:

- School Nursery, Garden, or Greenhouse
- School Bookstore
- Webpage services
- Printing, publications
- Catering, Meals, baked goods
- Made-to-order sheds, picnic tables

EXPERIENTIAL LEARNING



WHAT IS EXPERIENTIAL LEARNING?

Any kind of learning through experience; simply put it's 'learning by doing'.



Occurs when individuals engage in some activity, reflect upon the activity critically, derive some useful insight from the analysis, and incorporate the result through a change in understanding and/or behavior. (David A. Kolb, Experiential Learning: Experience as a Source of Learning and Development, 1984, 3-4).

EXPERIENTIAL OPPORTUNITIES

- OJT (On the Job Training) *there is a curriculum framework for OJT in each cluster!
- DCT (Diversified Career Technology)
- > Internships
- Externships
- Job Shadowing
- CTSO competitive events











FLORIDA'S CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOs)











BENEFITS OF CTSOS

- Student learning in CTE programs is enhanced by participation in leadership and competition opportunities available through co-curricular student organizations
- ➤ Local, regional and national platforms challenge students to develop better teamwork and leadership skills by applying classroom learning to "real-life" situations
- > CTSOs are an integral part of CTE instructional programs Example from the CTE Frameworks...
- FFA is the appropriate career and technical student organization for providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered. The activities of such organizations are defined as part of the curriculum in accordance with **Rule 6A-6.065, F.A.C**.

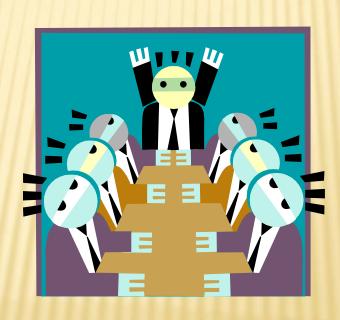
BENEFITS OF CTSOS

- Co-Curricular where rigor meets relevance!
- Leadership Development
- Real world application through competitive events (experiential learning)
- Community service opportunities
- Scholarships
- Awards and recognitions
- Travel

CTSO CONTACT INFORMATION

- Florida FFA Association (Future Farmers of America) www.flaffa.org
- Florida FBLA (Future Business Leaders of America) www.floridafbla-pbl.com
- FBLA/PBL (Future Business Leaders of America/Phi Beta Lambda) post secondary www.floridafbla-pbl.com
- BPA (Business Professionals of America) www.floridabpa.org
- Cooperative Education Clubs of Florida/Business Professionals of America (CECF/BPA) <u>www.cecf.org</u>
- Florida Family Career and Community Leaders of America (FCCLA) www.flfccla.org
- Florida Health Occupations Students of America (HOSA) www.flhosa.org
- Florida SkillsUSA www.skillsusa.info
- Florida DECA, Inc. www.fldeca.org
- Delta Epsilon Chi (DEX) post secondary www.fldeca.org
- Florida Public Service Association, Inc. (FPSA) www.fpsainc.org
- Florida Technology Student Association Foundation, Inc. (FL-TSA) www.floridatsa.com

PROFESSIONAL DEVELOPMENT FOR CTE TEACHERS



DOE PROFESSIONAL DEVELOPMENT OPPORTUNITIES

- Professional Development Institute (PDI) and Teacher Mini Grants (for CTE teachers to earn applicable industry certifications)
- http://www.fldoe.org/workforce/profdev.asp
- Integration Institute (was held May 2012 in Orlando)
- NG CATER (was held June 2012 in Ponte Vedra)
- Online Courses (FACTE) 60 hrs !!!!
- Workshops
- FACTE New Administrator Workshop (July 23rd @ FACTE conference)
- FACTE New Teacher Workshop (July 23rd @ FACTE conference)

DOE PROFESSIONAL DEVELOPMENT OPPORTUNITIES

- No cost to the participants
- Many can be used for continuing education credit
- Some include stipends and/or supplemental pay

http://www.fldoe.org/workforce/profdev.asp

PROFESSIONAL ORGANIZATIONS



FACTE.org

PROFESSIONAL ORGANIZATIONS

Paying FACTE dues entitles a CTE teacher to select their respective state Division...

Florida Leadership for Career and Technical Education (FLCTE)

Florida Association of Agricultural Educators (FAAE)

Florida Association of Jr. Reserve Officers Training Corps Personnel (FAJROTC)

Florida Business Technology Education Association (FBTEA)

Diversified Cooperative Training/Work Experience Association of Florida (DCTAF/WEAF)

Florida Equity Associate of Career and Technical Educators (FEACTE)

Florida Educators of Family and Consumer Sciences (FEFACS)

Health Occupations Educators Association of Florida (HOEAF)

Florida Apprenticeship Association (FAA)

Occupational Specialist/Guidance Association (OSGA)

Florida Association of Marketing Educators (FAME)

Florida Special Needs Association (FSNA)

Florida Association of Technical and Industrial Educators (FATIE)

Florida Technology Education Association (FTEA)

Florida Career Pathways Network (FCPN)

Public Services (PUBLIC SVC)

Teacher Educators (TCHR ED)

COMMUNITY SUPPORT

Parent and community involvement

- Meetings
- > Sponsors
- Judges
- > Mentors
- > Taxi Drivers

Advisory Board/Business Partners

ADVISORY BOARDS/BUSINESS PARTNERSHIPS



ADVISORY BOARDS/BUSINESS PARTNERSHIPS

It is imperative that education, business, industry, and community members communicate in order that Career and Technical Education can perform the function for which it was designed. Purpose:

- Provide long and short-range planning for CTE programs
- Advise current job needs of community and the relevance of CTE programs and courses offered
- Provide a forum for recommending equipment and training so that CTE can adequately meet its goals
- Encourage students to continue their education and preparation for a career beyond the high school level
- Enhance political and community support of CTE

YOU CAN SUPPORT CTE PROGRAMS AT YOUR SCHOOL BY...

- Visiting the class frequently invite school board members, business and community leaders, and local and state politicians to accompany you
- Encouraging the CTE instructor to publicize the program's successes
- Volunteering to be a judge at CTSO events
- Attending a state/national conference with CTE students

Components of a Quality Career and Technical (CTE) Education Program

