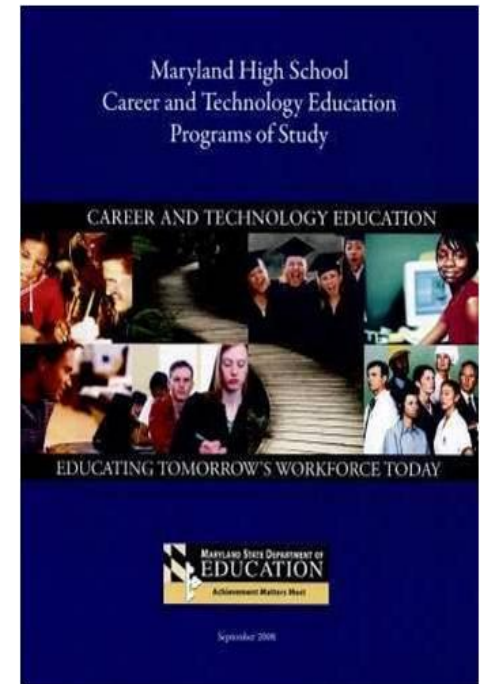
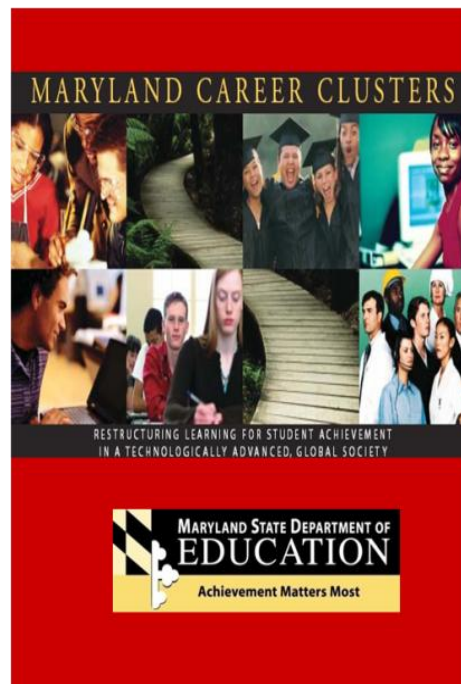
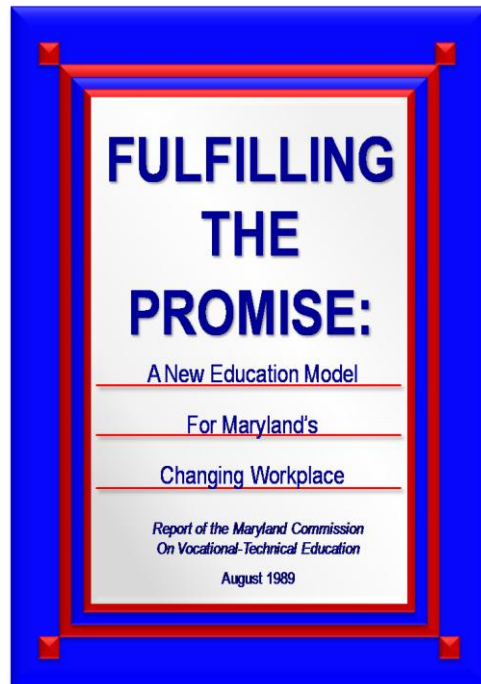


# Maryland New CTE State Programs of Study

*Preparing Tomorrow's Workforce....Today*



# Maryland CTE is a Critical Component of Education Reform



# Rigor/Relevance Framework

Evaluation	6	High Rigor Low Context	High Rigor High Context
Synthesis	5	AP Math	MD's New CTE
Analysis	4		
Application	3	Low Rigor Low Context	Low Rigor High Context
Understanding	2	Arithmetic	Old Voc Ed
Awareness	1		

1. Knowledge

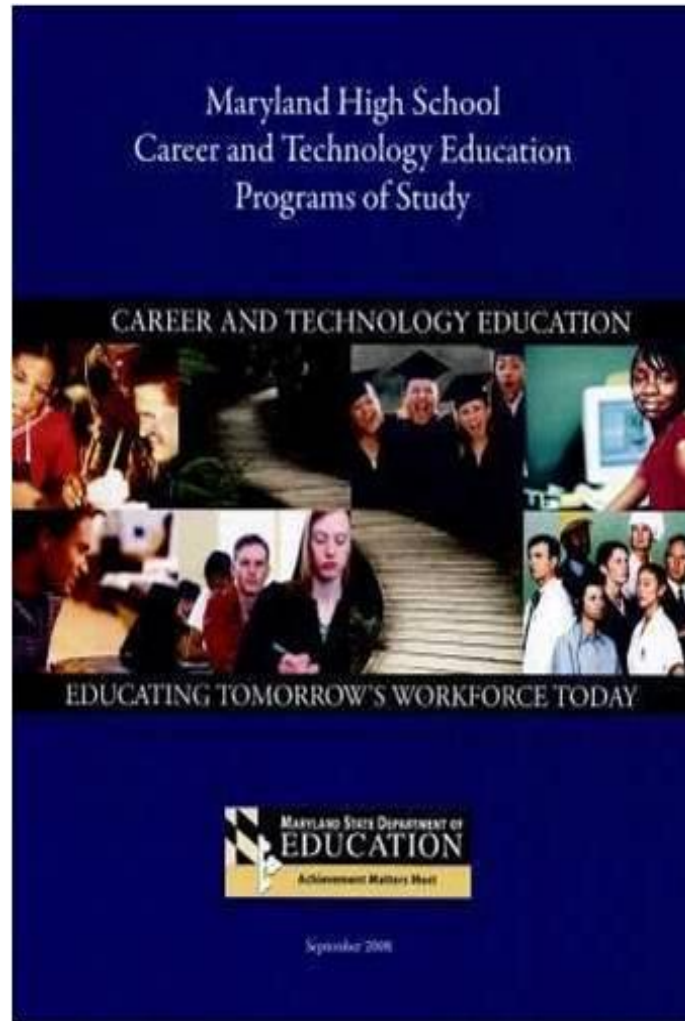
2. Apply in  
Discipline

3. Apply Across  
Disciplines

4. Apply to  
Predictable  
Situation

5. Apply to  
Unpredictable  
Situations

# Maryland Secondary State CTE Programs of Study



- Arts, Media, & Communication
- Business, Management & Finance
- Construction & Development
- Consumer Services, Hospitality, & Tourism
- Environmental, Agricultural, & Natural Resources Systems
- Health & Biosciences
- Human Resource Services
- Information Technology
- Manufacturing, Engineering & Technology
- Transportation Technologies

# CTE “Value-Added” Features

- College Preparatory Academic Curriculum
- A minimum of 4 credits in a CTE Program of Study
- Work-based Learning Opportunities
- Course and/or Program Assessments
- Industry Recognized Certifications/Licenses
- Early College Credit – CTE Program Articulation
- Comprehensive System of Career Development
- Career Technology Student Organizations
- Business-led Program Advisory Committees





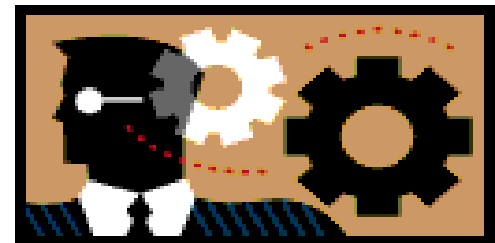
# Student Expectations

- **Graduation Pathway Option:** Students complete a State-approved CTE Program.
- **Program Sequence:** A CTE Program is a Sequence of Courses that Results in an Industry Certification and/or Early College Credit
- **Career Development:** With Guidance, Every Student has a Career and Academic Plan Prior to Grade 9 that is Updated Annually
  - Students Identify CTE Programs Aligned with their Interests, Skills, Knowledge and Goals
- **Rigor & Relevance:** Students Take Higher Level Academic Courses in Conjunction with a CTE Program of Study (e.g. Honors and AP)
- **Career & College Ready:** Students Can Complete a CTE Program AND Meet College Admission Requirements

# Why Career & College Prep?

Of all pre-college curricula, the highest level of math one studies in secondary school has the strongest continuing influence on bachelor's degree completion.

Finishing a course ABOVE the level of Algebra 2 more than doubles the odds that a student who enters postsecondary education will complete a bachelor's degree.



# “New” CTE Programs

- ❖ Students apply knowledge and skills through activities, projects & problem-based learning
- ❖ Participate in challenging inquiry-based instruction



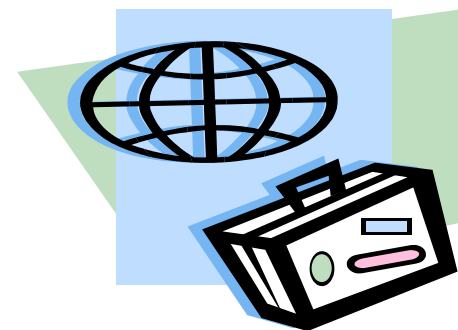
- Design Solutions to Problems
- Present Independent, Mentored Projects
- Research & Write Technical Reports
- Collaborate on teams



# Quick Facts About CTE

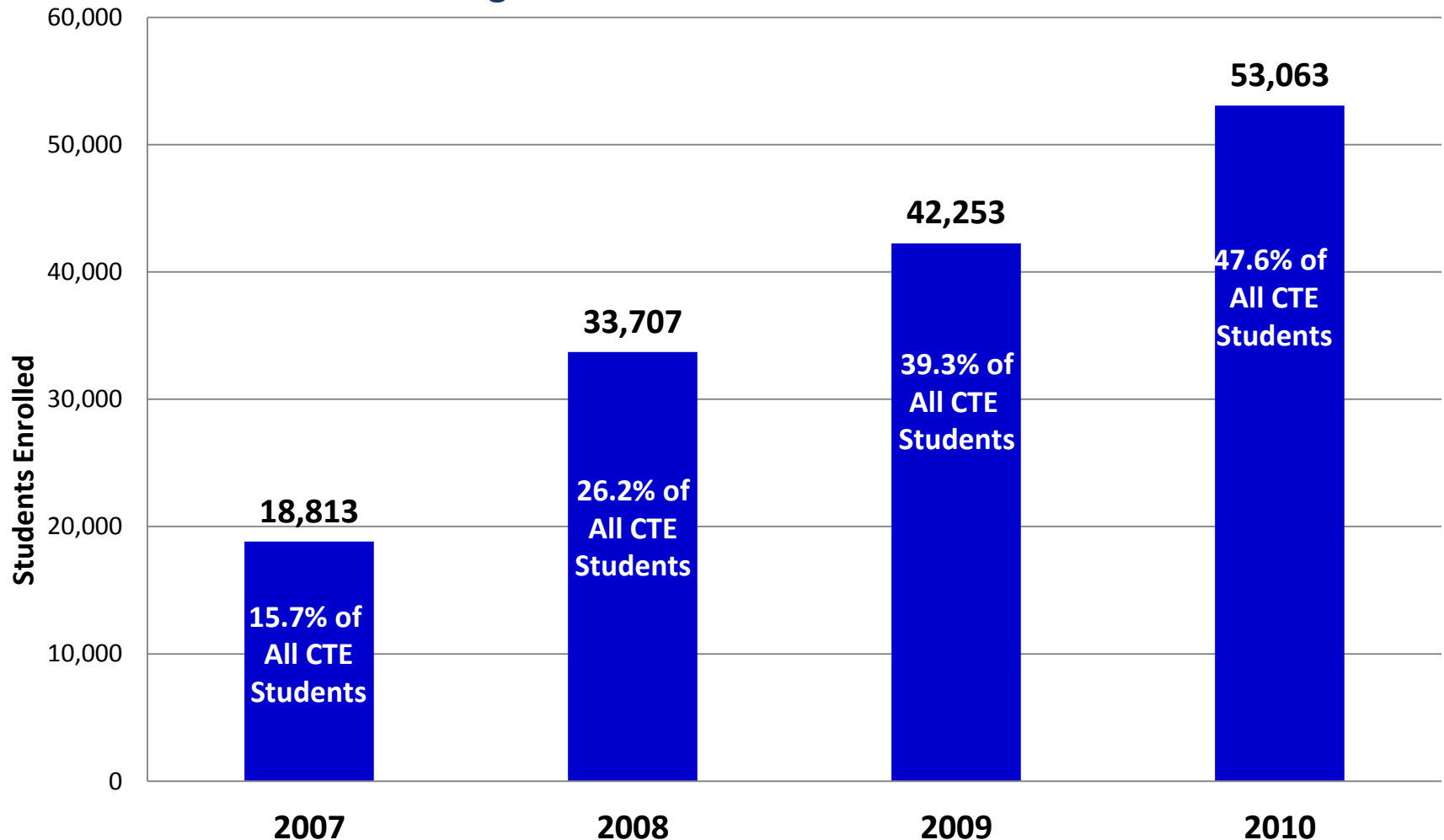
- ❖ CTE = Career and Technology Education
- ❖ 117,339 Students Enrolled in Grades 10-12
- ❖ 38 State Programs of Study
- ❖ 57,548 Graduates - 11,404 (19%) CTE Graduates
- ❖ 52% of the CTE Graduates are “Dual Completers” – both college and career ready

*Based on 2011 CTE Data*



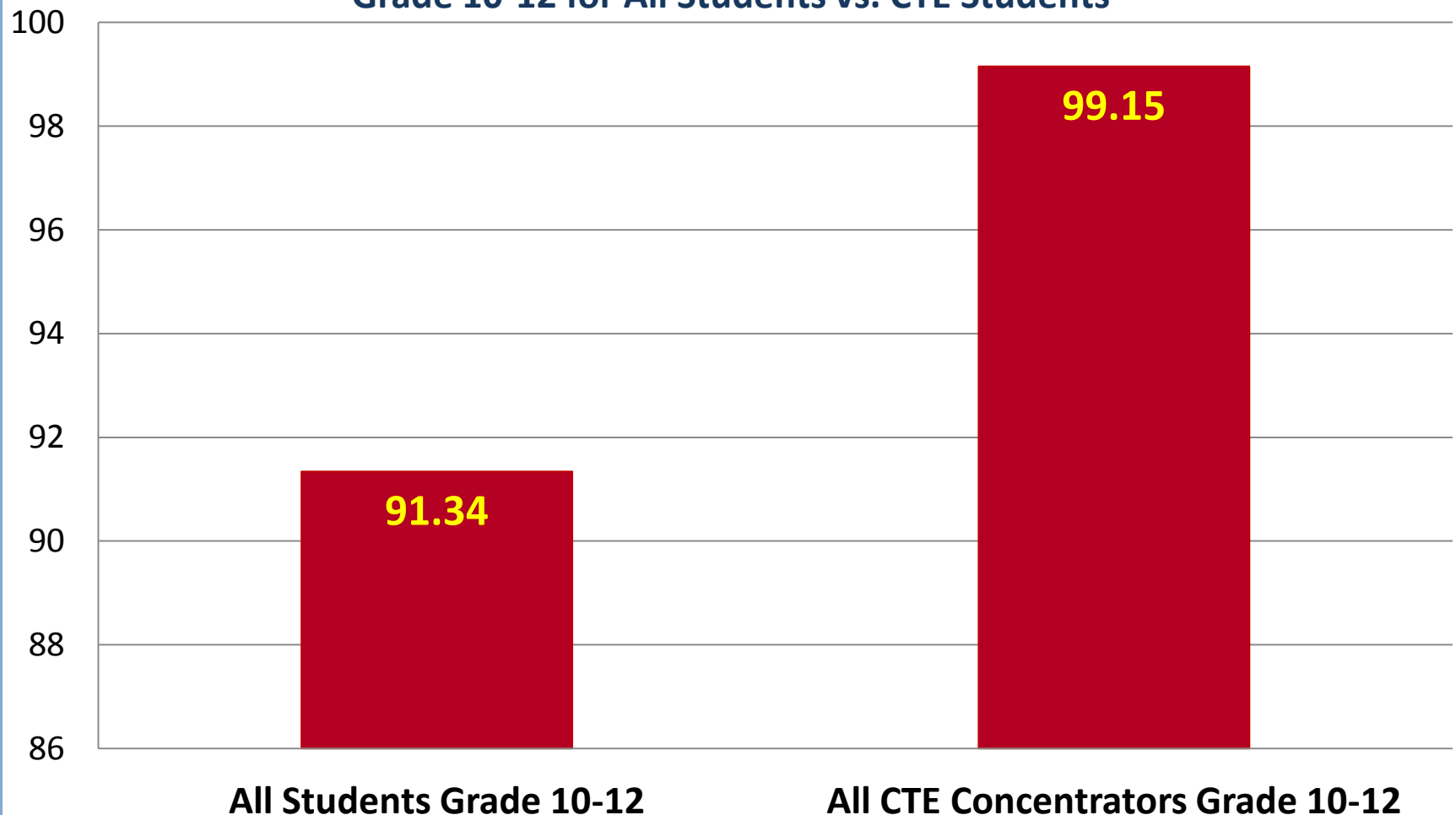
# State Designed CTE Programs of Study (POS)

Increasing Enrollment in State POS: 2007-2010



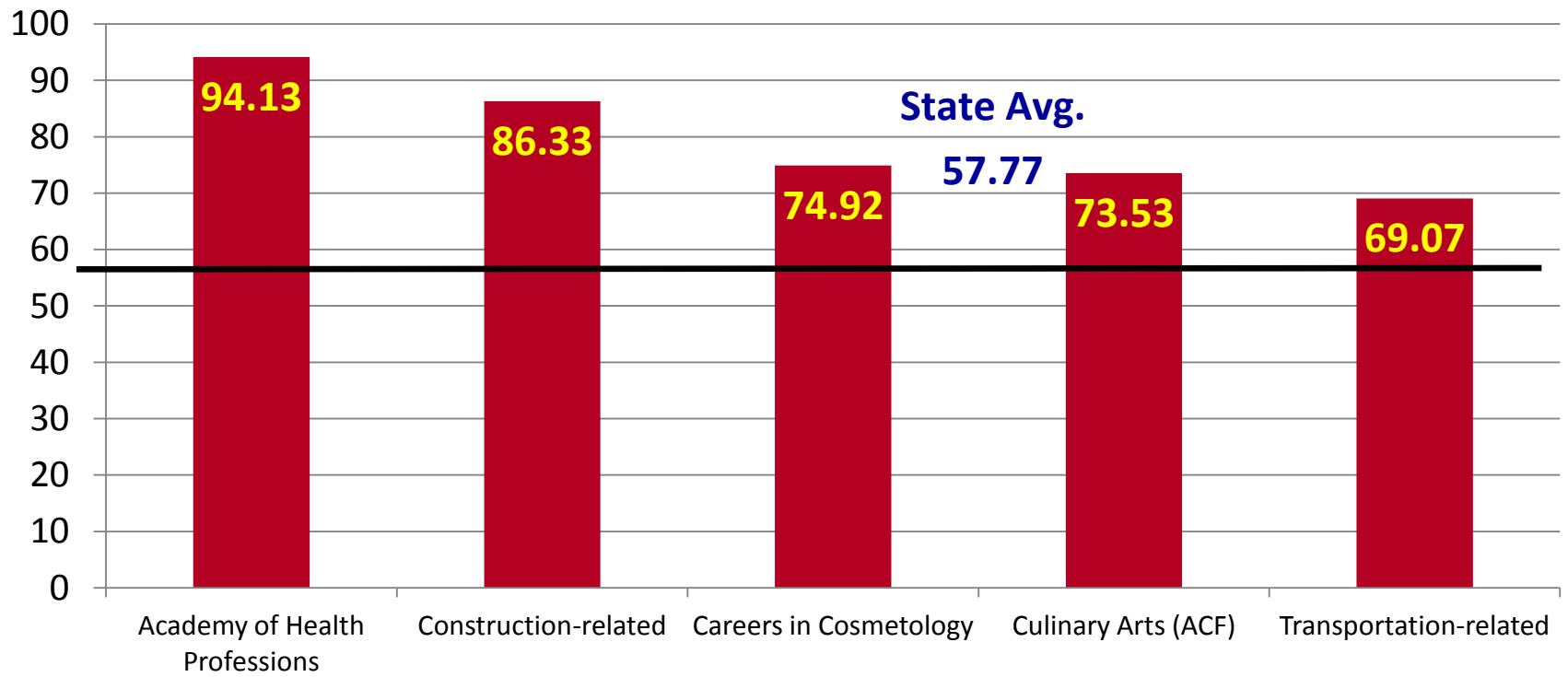
# Getting Results: CTE Graduation Rate

Comparison of 2010 Graduation Rates  
Grade 10-12 for All Students vs. CTE Students



# CTE Results: Advanced Technical Skills

Percent of Students Earning Industry Certification (12th grade status)



# CTE Recognized in Valued Measures

- State Stat and *Managing For Results*
  - *Participation and performance of all high school student subgroups in challenging instructional programs -- Dual Completion (CTE/USM)*
- Education Week – *Quality Counts - # 1 in Public Education Four Years in a Row!*
  - *#1 in **Transitions & Alignment**, aligning preK-12 standards with early learning & college and career expectations. Score/Grade: 96.4%/A*
- Workforce and Economic Development– *Skills2Compete*
  - *Increasing the number and percent of CTE students earning industry certification related to their technical program of study*



# Getting Results

- Organizing into cluster teams and evaluating staff using a matrix-management approach
- Developing partnerships with representatives from secondary, postsecondary and industry for program improvement



- Identifying “affiliates” to support curriculum and professional development for CTE teachers



# Getting Results

- Aligning state and federal resources to support implementation of CTE state programs of study
- Using performance data for continuous improvement
- Disseminating policies and procedures for CTE programs



- Appointing a state CTE program review panel representing state agencies, secondary and postsecondary educators

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Maryland State Department of Education  
[www.marylandpublicschools.org](http://www.marylandpublicschools.org)

CTE Programs of Study – “Blue” Book

<http://www.msde.maryland.gov/NR/rdonlyres/FCB60C1D-6CC2-4270-BDAA-153D67247324/28306/CTEBook2011PDFVersion.pdf>

