

Career and Technology Education Status Report



Presentation to the Maryland State
Board of Education

April 26, 2011

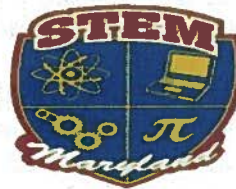
Katharine M. Oliver
Assistant State Superintendent
Division of Career and College Readiness



CTE is a Critical Component of Education Reform and Workforce/Economic Development



MARYLAND'S REFORM PLAN
RACE TO THE TOP



Skills 2 Compete



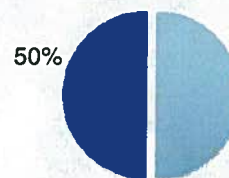
21st Century CTE

- Today's CTE prepares students for both college and careers through rigorous *programs of study*.
- The focus has moved from preparing students with trade specific skills to preparing them with academic and technical knowledge to be successful in a wide range of career opportunities (and advanced education and training).
- Increased accountability supports CTE program improvement with an emphasis on academic and technical skill attainment (industry certification) – *College and Career Readiness* 3

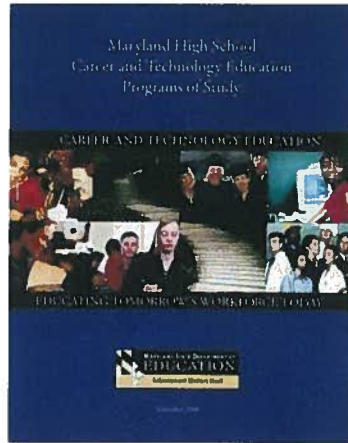
Maryland Secondary CTE: Enrollment

- CTE Programs of Study typically include a sequence of four (4) courses, between grades 10-12
- Nearly half (50%) of all grade 10-12 high school students enroll in a CTE course (111,366)
- Students may elect a range of courses (career areas), or may complete the full sequence for a *CTE Program of Study*

Percent of High School CTE Enrollment (10-12)



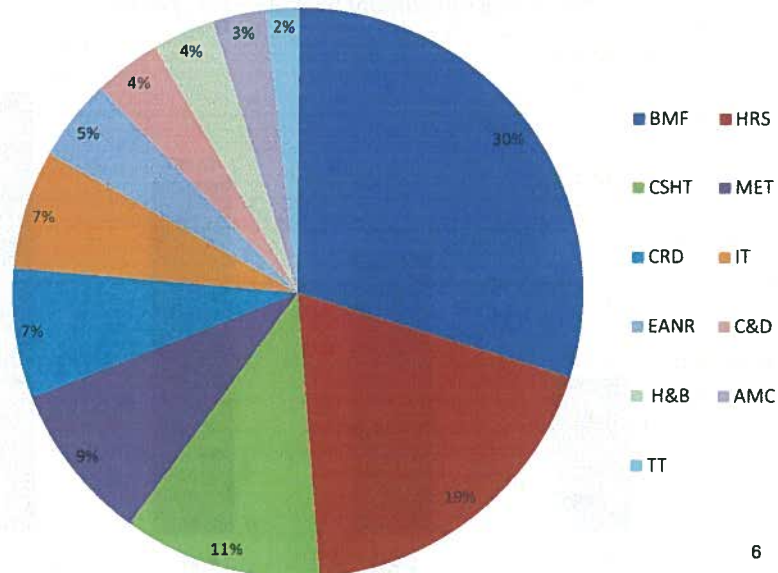
Maryland Secondary CTE 48 CTE Programs of Study



- Arts, Media, & Communication (AMC)
- Business, Management & Finance (BMF)
- Construction & Development (C&D)
- Consumer Services, Hospitality, & Tourism (CSHT)
- Environmental, Agricultural, & Natural Resources Systems (EANR)
- Health & Biosciences (H&B)
- Human Resource Services (HRS)
- Information Technology (IT)
- Manufacturing, Engineering & Technology (MET)
- Transportation Technologies (TT)

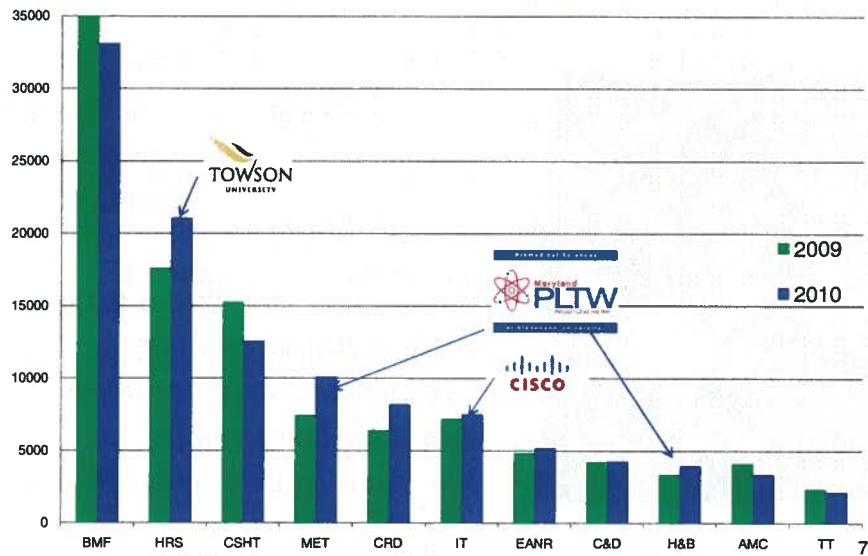
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2010 CTE Enrollment Reflects Many Career Interests



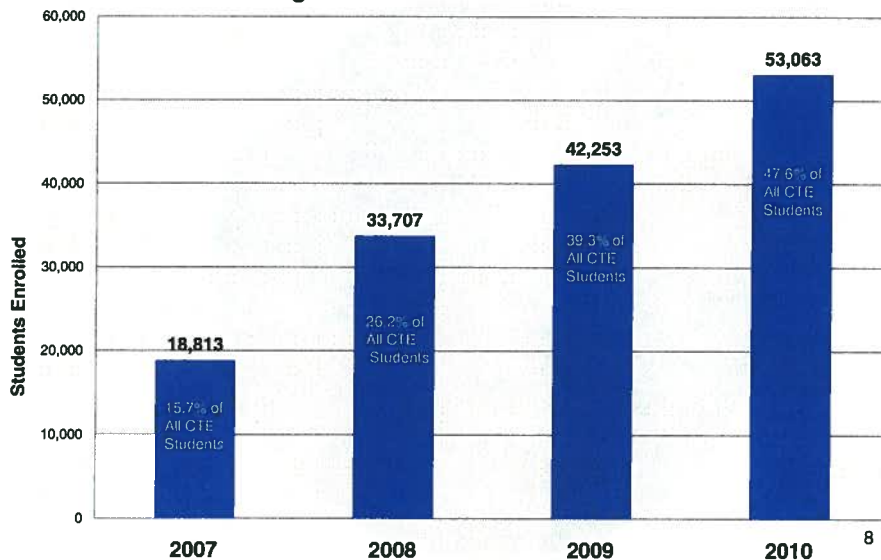
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2010 CTE Enrollment Changes by Career Cluster (overall increase is 8%)



State Designed CTE Programs of Study (POS)

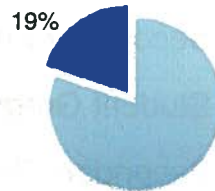
Increasing Enrollment in State POS: 2007-2010



Maryland Secondary CTE: Graduates

- 19% of the class of 2010 completed a *CTE Program of Study* (11,356)
- 51% of these CTE graduates also completed the coursework for entrance to USM, this is considered a "Dual Completer" (5,834)

Percent of High School CTE Graduates



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CTE in Maryland: Getting Results

- Federal Accountability Measures: *Carl D. Perkins Career and Technical Education Act of 2006*
- Maryland Accountability Measures
- Maryland Longitudinal Data System Requirements

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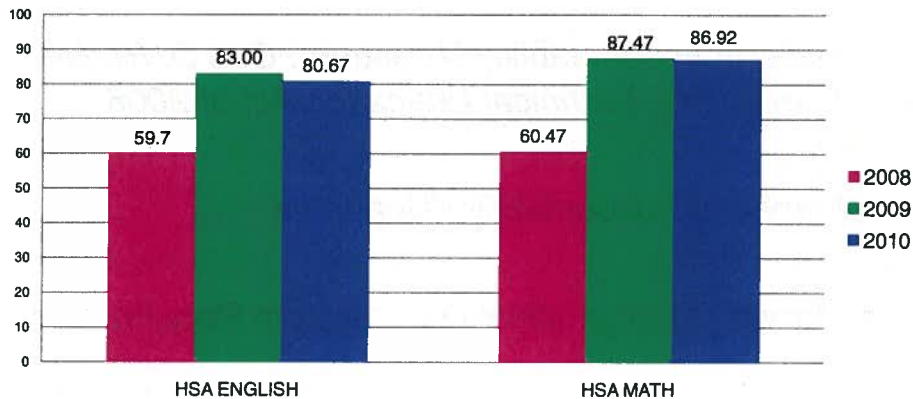
Secondary CTE Accountability Measures

1. Academic Attainment:
Reading/Language Arts & Mathematics
2. Technical Skill Attainment ← New measure
in 2009
3. Secondary School Completion
4. Student Graduation Rate
5. Secondary Placement
6. Non-Traditional Participation & Completion

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Getting Results: HSA Proficiency Gains in CTE*

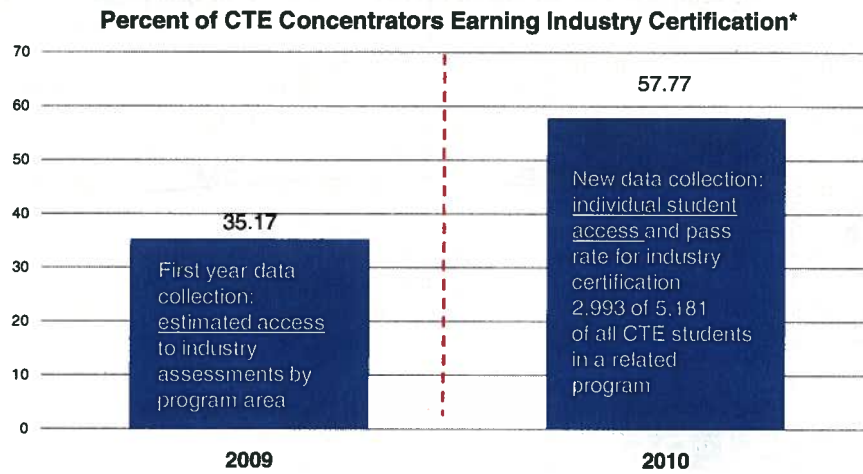
**Percent of CTE Concentrators Passing English and
Mathematics Assessments (Grade 12 Status)**



* Federal reporting requirements do not allow inclusion of students meeting standards through alternative assessments and/or Bridge process)

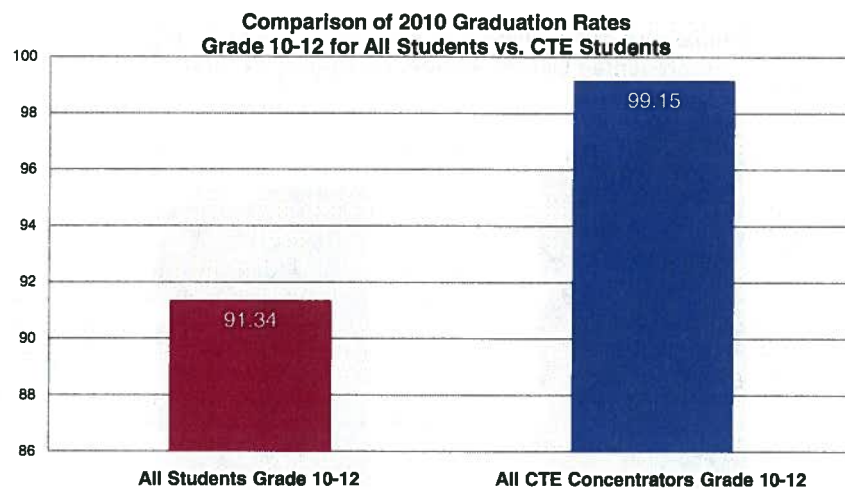
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Getting Results: Students Achieving Industry Standards



* Comparison of results may not be made due to changes in data collection process 13

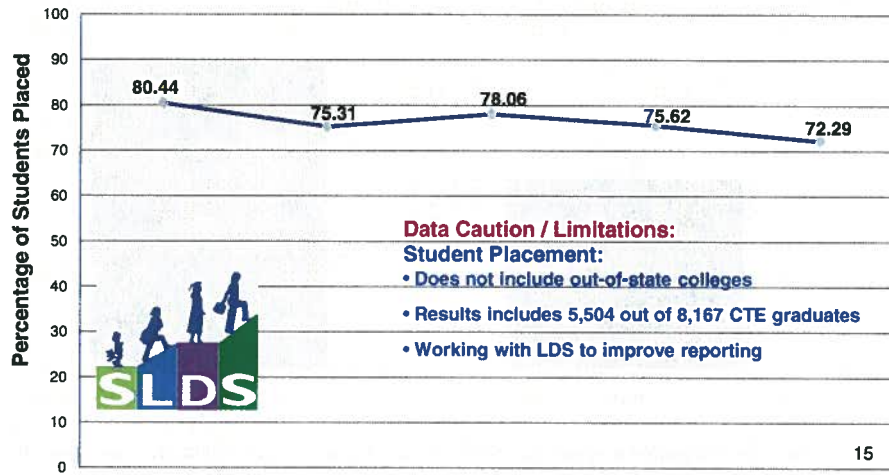
Getting Results: CTE Graduation Rate



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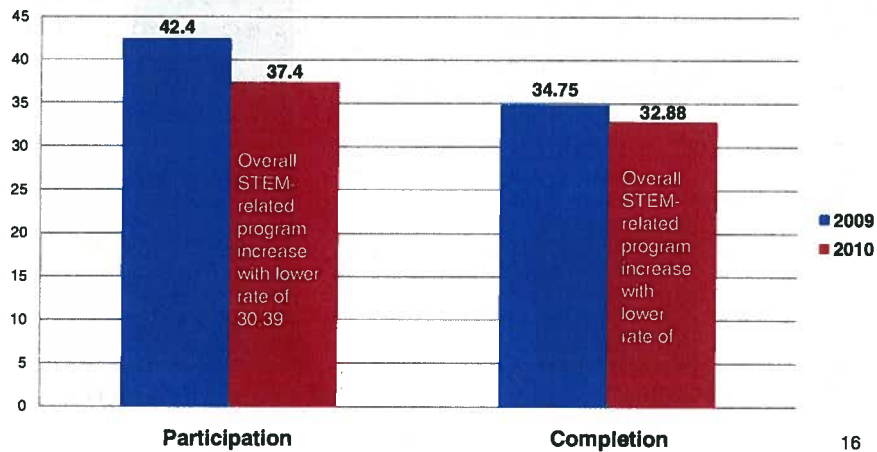
Getting Results: CTE Placement Rate

Percentage of CTE Students Employed, Enrolled in Postsecondary Education in Maryland or in the Military, two quarters after Graduation, 2006-2010



Non-Traditional Gender Participation and Completion (federal requirement)

Comparison of Enrollment and Completion of the Under-Represented Gender in Non-Traditional Programs

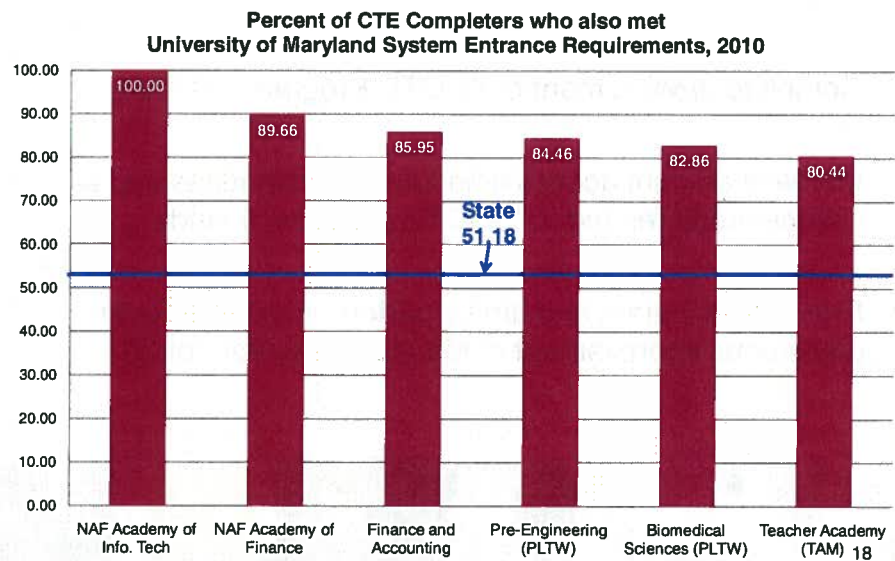


CTE State Results

- **MSDE Achievement Matters Most– *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 **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*

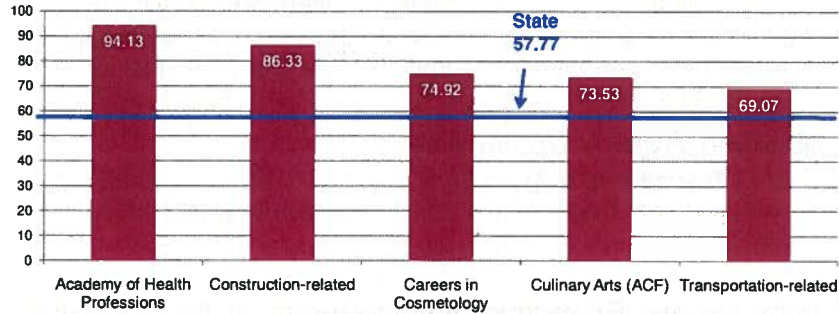
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CTE State Results: College & Career Ready



CTE Results: Advanced Technical Skills

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



Continuing the Progress

- Complete development of 48 CTE Programs of Study
- Increase student access to industry certifications and early college credit related to the CTE program of study
- Providing accurate and timely performance data for the continuous improvement of Maryland's system of CTE

