College & Career Readiness in the CTE Classroom, RPOS 5.0

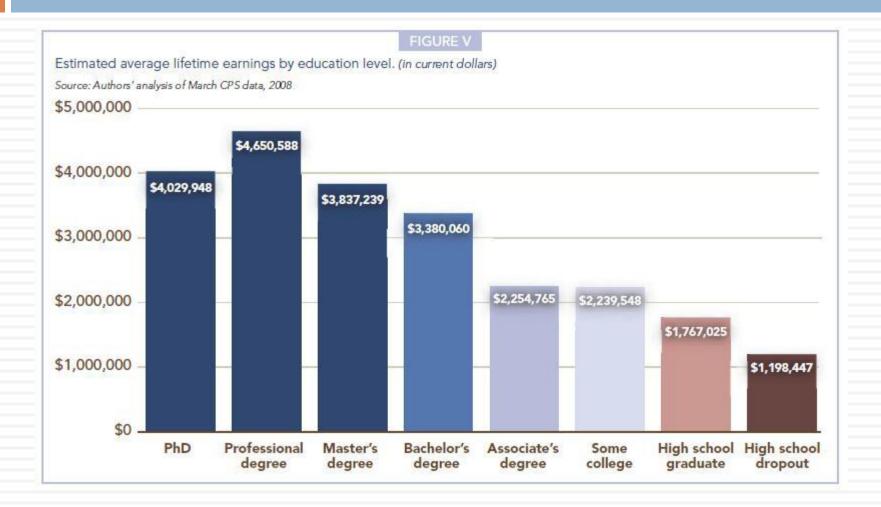
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Career & Technical Education Annual February Conference







Source: Anthony P. Carnevale, Nicole Smith, Jeff Strohl, Help Wanted: Projections of Jobs and Education Requirements Through 2018. 2010. http://cew.georgetown.edu/



FIGURE 1 Since 1973, jobs that require at least some college have exploded while opportunities for those with just a high school education have shrunk dramatically



Source: Pathways to Prosperity Project – Harvard Graduate School of Education - February 2011



In 2009, President Barack Obama laid out a path to restoring America's international leadership in postsecondary attainment:

"...tonight I ask every American to commit to at least one year or more of higher education or career training. This can be community college, a four-year school, vocational training, or an apprenticeship. But whatever the training may be, every American will need to get more than a high school diploma."

Source: Pathways to Prosperity Project – Harvard Graduate School of Education - February 2011



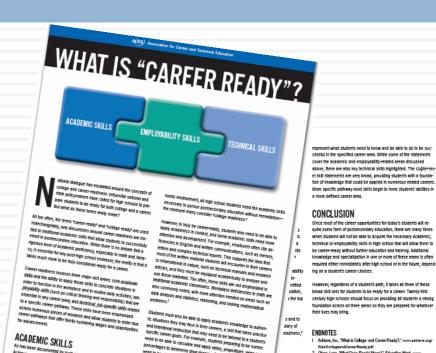
- On January 23, 2012, **Governor Brownback** announced the metric his administration will use to track his Road Map for Kansas goal to increase the percentage of graduating high school students who are career or college ready.
- The metric will measure: "College Ready" students plus "Career Ready" students, divided by the total number of juniors and seniors in high school in Kansas."
- **Definition of College Ready:** Number of high school students who score 21 or higher on the ACT. (21 is the admissions standard set by the KBOR.)
- **Definition of Career Ready:** Number of high school students who receive a technical certification.
- Brownback told the group the metric for 2011 is 23%.



What do the terms "career ready" and "college ready" really mean?

ACTE defines Career Readiness using a formula that includes:

- College Readiness
- **Employability Skills**
- **Technical Skills**



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Employability skills have often been cited by employers as the skills most critical to workplace success in the 21-st-century economy.

interconnection or maintenance connection or one of servicestary commercy.

These skills include (but are not limited to) critical thinking, adaptable

can Welding Society's Certified Welder cregents

Through the States Career Clusters Initiative², business and industry

leaders have identified key knowledge and skill statements across

16 cases clusters and 79 mose-specific pathways. These statements

EMPLOYABILITY SKILLS

ACADEMIC SKILLS

As has been documented by such organizations as ACT and no nea sean necessivate up auto organization or hou some Achieve, Career-ready core academics and college-ready core

Actives, career reasy care according and consequencing care academics are especially like same, thus creating overlap in the

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proporates statems need to be many our pronountainty traversas and caseers, fall students need foundational academic knowledge,

especially in math and English language arts, and, in today's eco-

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I Achieve, Inc., "What is College- and Career-Ready?," www.ashtere.org/

2 Olsen, Lynn, "What Does 'Ready' Mean?," Education Week, www educationaliance.org/StateScholara/Dovrnloads

er, an Individ Olsen, Lynn, What Does 'Ready' Mesn? fic knowledge Society for Human Resource Management, "Critical Skills Needs and Resources for the Changing Worldson: Keeping Skills Competitive," www.) the question

The Conference Board, Corporate Voices for Working Families, Partnership for 21st Century Skills, and the Society for Human Resource Management, "Are They Really Ready to Work? Employers' Perspectives on the Besic Knowledge and Applied Skills of New Entrants to the 21st Century U.S.

National Association of Manufacturers, "2005 Skills Gap Report - A Survey of the American Menufecturing Workforce," www.nam.org/~imedia/

States Career Charles Initiative, wave apparent where are

Association for Career and Technical Education • 1410 King Steet, Alexandria, VA 22314 • 800-809-9972 • Fax: 703-683-7424 • www.aateonline.org

Source: http://www.acteonline.org/readiness.aspx



College Readiness:

All students need foundational academic knowledge, especially in math and English language arts, and, in today's economic environment, all high school students need the academic skills necessary to pursue postsecondary education without remediation - the measure many consider "college readiness."



Employability skills

cited by employers as the skills most critical to workplace success in the 21st-century economy. These skills include:

- Critical thinking
- Adaptability
- Problem solving
- Oral and written communications
- Collaboration and teamwork
- Creativity
- Responsibility
- Professionalism
- Ethics
- Technology use





- Employability skills (cont.)
- In the 2006 report, "Are They Really Ready to Work?,"
 employability skills "dominate rankings of knowledge and skills
 expected to increase in importance over the next five years."
- Employers identified these top five:
 - critical thinking/problem solving,
 - information-technology application
 - teamwork/collaboration,
 - creativity/innovation
 - diversity





Technical Skills

In the National Association of Manufacturers 2005 Skills Gap Report,

"technical skills"

was the top response to the question,

"What types of skills will employees need more of
over the next three years?"

Source: http://www.acteonline.org/readiness.aspx



Perkins POS Required Elements	POS Framework Supporting Elements		
Incorporate and align secondary and	Legislation and Policies		
postsecondary education elements	 Partnerships 		
Include academic and CTE content in a	Course Sequences		
coordinated, non-duplicative progression	 College and Career Readiness 		
of courses	Standards		
	 Teaching and Learning Strategies 		
	Guidance Counseling and Academic		
	Advisement		
Offer the opportunity, where appropriate,	Credit Transfer Agreements		
for secondary students to acquire postse-	Professional Development		
condary credits			
Lead to an industry-recognized credential	Technical Skill Assessments		
or certificate at the postsecondary level,	Accountability and Evaluation Systems		
or an associate or baccalaureate degree			



			,	,		
	Current Status		S	Importance		
POS Framework Elements	None	In Progress	Operational	Low	Important	Critical
1. Legislation and Policies	0	0	8	0	0	8
2. Partnerships	0	0	6	0	0	0
3. Professional Development	0	0	•	0	0	0
4. Accountability and Evaluation Systems	0	0	8	0	0	0
5. College and Career Readiness Standards	0	0	•	0	0	0
6. Course Sequences	0	0	8	0	0	8
7. Credit Transfer Agreements	0	0	8	0	0	8
8. Guidance Counseling and Academic Advisement	0	0	8	0	0	8
9. Teaching and Learning Strategies	0	0	•	0	0	0
10. Technical Skill Assessments	0	9	6	0	0	8



College and Career Readiness Standards

Today's workplace requires that all workers be lifelong learners in order to advance in their careers. It is necessary there be a common set of knowledge and skills that all individuals acquire to successfully transition into postsecondary education or the workplace.

As individuals select specific career paths, they will then have to focus on the additional knowledge and skills (above and beyond core college and career readiness) they should acquire to be successful in their chosen field.



How do we deliver the message and prepare our students?

CTE Classroom

Foundation Knowledge & Skills

CTSOs

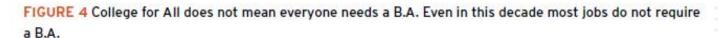
- •BPA, DECA, FCCLAA
- Skills USA, TSA

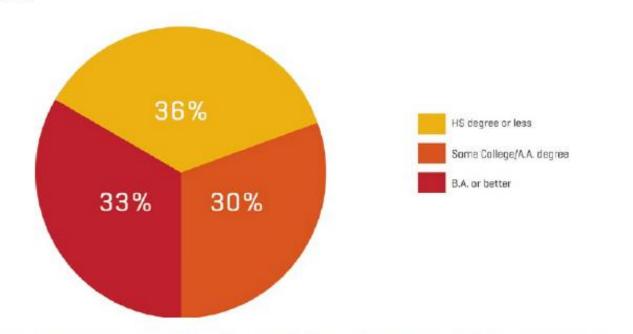
Guidance & Career Counseling and Academic Advising

- Personal Plans of Study
- Kansas Career Pipeline, Assessments
- Career Development Planning
- Career Fairs Job Shadowing









Source: March CPS data, various years; Center on Education and the Workforce forecast of educational demand to 2018.

The Center on Education and the Workforce at Georgetown University projects that the U.S. economy will create some 47 million job openings over the 10-year period ending in 2018. Nearly two-thirds of these jobs, in the Center's estimation, will require that workers have at least some post-secondary education.

Source: Pathways to Prosperity Project – Harvard Graduate School of Education - February 2011



- Manpower has 4,000,000 workers employed in 80 countries worldwide. In order to fill those positions, they interviewed 12,000,000 individuals.
- In 2011, 52% of employers are having difficulty finding talent to fill key positions.
- The Top 10 Jobs in the United States

1	Skilled Trades	4	IT Staff
	Skilled Irades	0.	11 31011

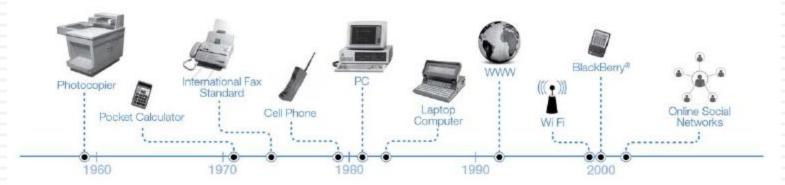
- 2. Sales Representatives 7. Management/Executive
 - . Engineers 8. Teachers
 - Drivers 9. Secretaries, PAs, Admins
- 5. Accounting & Finance 10. Machinists/Machine Operators
- By 2020 there will be 120 million high skill high pay jobs and only 50 million people to fill them.

Source: Melanie Holmes, Manpower Group – Jan. 2012, Kansas Workforce Summit



Technology has long changed the way we work

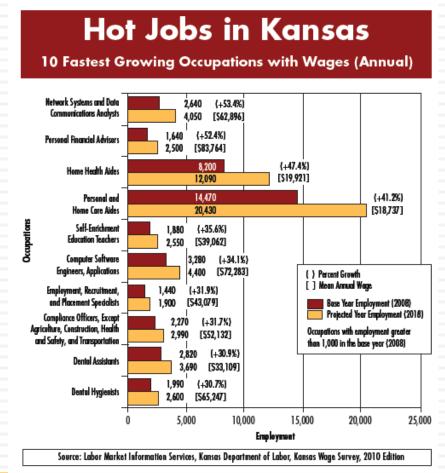
- It matters less what we know and more what we can find
- It matters less what we do <u>ourselves</u> and more how we <u>collaborate</u> with others
- It matters less how we <u>look</u> when we work and more <u>how much</u> work we get done
- It matters less what skills we have <u>mastered</u> in the past and more how well we <u>learn</u> new skills in the future



Source: Melanie Holmes, Manpower Group – Jan. 2012, Kansas Workforce Summit



- All ten occupations are projected to grow at a rate more than three times higher than the average growth rate of all occupations in Kansas which is 9.8%
- According to the Kansas Wage Survey 7 of the above 10 occupations earn more than the statewide average annual wage for all occupations which is \$38,525.



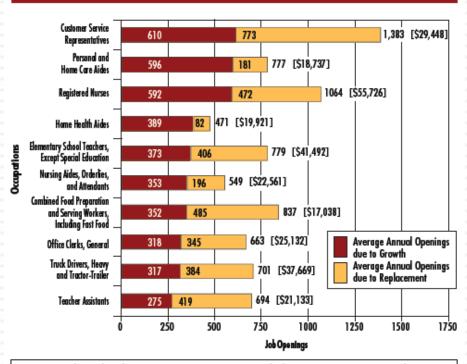
More information about the Kansas Occupational Outlook is available on the KDOL website at http://www.dol.ks.gov/LMIS/Projections/Projections.html



- Job Openings from Replacement are the openings created by people leaving their current occupation to move to another occupation or to leave the labor market.
- Job openings from Growth are new openings that are the result of increased demand for working in the occupation.
- These 10 occupations account for over one quarter of all projected average annual openings (due to growth) over the projection period 2008 to 2018.

Job Openings

Top 10 Average Annual Job Openings (Due to Growth)



Source: Labor Market Information Services, Kansas Department of Labor, Kansas Wage Survey, 2010 Edition



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