# What is AVTEC doing...and what do districts need to know

Fall Boardsmanship Academy
September 23 – 24, 2017
Cathy LeCompte, Director ~ AVTEC



# AGENDA FOR TODAY

- History of vocational education (aka CTE)
  - How does vocational education look in your district?
- Success in the New Economy
  - What are you doing in your district to prepare students for the new economy in Alaska?
  - What is AVTEC doing to prepare students for success in the new economy & Alaska?
- Questions...comments



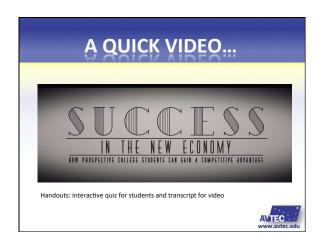
### **History of Vocational Education**

- Origins of vocational education
  - -Smith-Hughes Act 1917
- Improving vocational education
  - Image problem / NCLB forced vocational education to up their game
- College & Career Readiness
  - Career & Technical Education

http://www.americanradioworks.org/segments/the-troubled-history-of-vocational-education



# SHARE WITH EACH OTHER... WHAT DOES VOCATIONAL EDUCATION LOOK LIKE IN YOUR DISTRICT?





#### **Success in the New Economy**

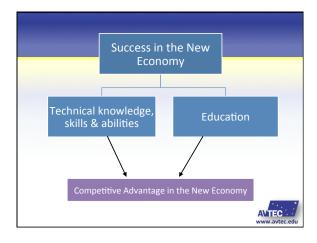
- National data indicates individuals earn more money with a college education
- "College for all" in pursuit of future job security, social mobility, and financial prosperity:
  - −1960 = 13% high school students go to college
  - −2010 = 60% high school students go to college



### **Success in the New Economy**

- 66% high school students enroll in college but only 25% finish BA degree and those who do find that they are not prepared for the world of work...
- Results is underemployment in "gray collar" jobs – over educated (and in student loan debt) for job/salary







# Alaska data indicates...

- More education and training generally means higher earnings, better benefits, and lower unemployment rates
- A highly educated/trained population is an economic asset to a city, region, state, and nation
- Many of the jobs most susceptible to being automated away are low-skilled



Alaska Top Jobs Ratio						
1	2	. 7				
Physical Therapist     General & Family Practitioners     Physician Assistants	Elementary School Teachers     Airline pilots     Purchasing agents     Registered nurses	<ul> <li>Firefighters</li> <li>Air traffic controllers</li> <li>Aircraft mechanics</li> <li>Captains, Mates, and Pilots</li> <li>Computer user support</li> </ul>				
http://labor.alaska.gov/tren	nds/oct16.pdf	AVITEC				

### Other post high school options...

- Apprenticeships:
  - Carpenters, Electricians, Plumbers, Pipefitters and steamfitters
- Long-term on-the-job training:
  - Mobile heavy equipment mechanics, water and wastewater treatment, Power Plan Operators
- Moderate-term-on-the-job training:
  - Welders, police and correctional officers, inspectors/testers/sorters

http://labor.alaska.gov/trends/oct16.pdf



### What this boils down to...

- High school kids should expect to continue their education/training if they want good wages and better job security.
- It's an overstatement to say that all or nearly all of the jobs our economy is producing will require something beyond a high school education, but it is fair to say that MOST of the GOOD jobs will.
  - Dan Robinson, Senior Research Analyst DOLWD



#### **SHARE WITH EACH OTHER...**

WHAT ARE YOU DOING IN YOUR DISTRICT TO PREPARE STUDENTS FOR THE NEW ECEONOMY IN ALASKA?





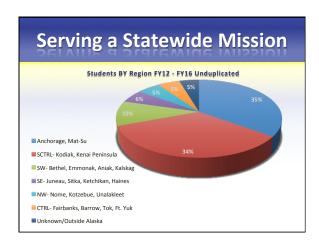


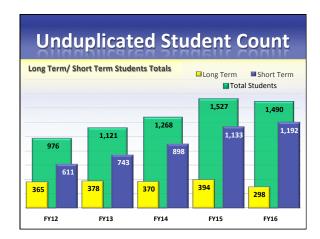
## **AVTEC** at a glance...

- A division of the Alaska Department of Labor and Workforce Development
- Qualified instructors, teachers; strong employer connections for relevant training & jobs for graduates
- Provider of postsecondary technical training since 1969
- Nationally accredited by the Council on Occupational Education

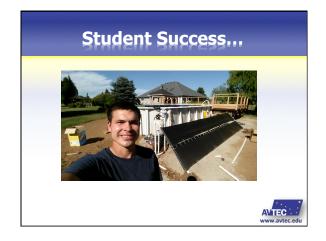
# AVTEC prepares students with career & technical skills required for success in the Alaska workplace.







# Student Achievement... In FY16, 91% of AVTEC students enrolled in long term training programs graduated or completed training upgrades Among these AVTEC graduates, 90% were employed in training-related jobs



### **Training Experience...**



- Applied technical skills
- Competency-based assessments
- Industry driven credentials
- Specific preparation for employment

### TRAINING PROGRAMS

- Long term training programs take students from zero to entry level;
   6 weeks to 10 months.
- Job Upgrade Training for new & incumbent workers; less than 6 weeks increase upward mobility.
- Continuing Education for new & incumbent workers; less than 6 weeks to maintain employed status.





## **Long Term Training Programs**

- Applied Technologies:
  - Combination Welding (Structural & Pipe Welding)
  - Diesel Heavy Equipment Technology
- Energy Building Trades:
  - Industrial Electricity
  - Construction\*
  - Refrigeration\*
  - Plumbing & Heating\*
  - Power Plant Operator





## **Long Term Training Programs**

- Alaska Culinary Academy
   Culinary Arts
- Alaska Maritime Training Center:
  - Master not more than 200 Tons
  - Qualified Member of the Engine Department
- Information Technology:
  - Business & Office Technology
  - Information Technology (Networking)





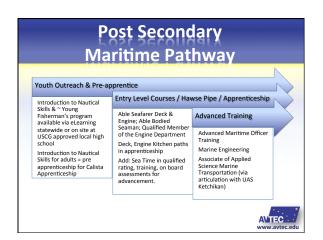
## **Short Term Training Programs**

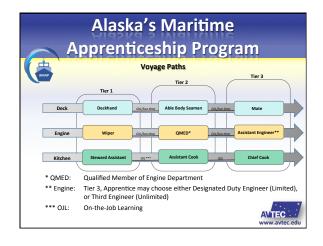
- Bulk Fuels Operator
- Advanced Power Plant Operator
- School Bus Driver
- Microsoft Office Products
- Maritime Basic Training
- Maritime Advanced











Student Success	
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### SHARE WITH EACH OTHER...

IN WHAT AVTEC PATHWAYS DO YOUR DISTRICT CTE PROGRAMS ALIGN?



# Training Partnerships are key to student success...

- University of Alaska ~ articulation agreements and program schedule alignment
- Regional Training Centers ~ transition support for students
- High Schools ~ EXCEL Alaska, tours & experience at AVTEC
- Employers / Registered Apprenticeships ~ Related Instruction



# Industry Partnerships are key to Student Success...

- Alaska Workforce Investment Board
  - Provide oversight to AVTEC
- Industry Advisory Committee
  - Advise: strategic conversations
  - -Assist: fund development
  - Advocate: key areas for policy change; AVTEC's voice in Juneau and beyond



# Industry Partnerships Key to Student Success...

- Program/Occupation Advisory Committees
  - Advise: On curriculum, student performance in workplace
  - Assist: Equipment donations, financial contributions, scholarships for students
  - Advocate: Support AVTEC mission through communication; ambassadors



### **Questions?**

Visit us on the web at:

www.avtec.edu

Come and visit - book a tour

become a fan

Contact me at:

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AVTEC ...