

NUCLEAR LEGISLATIVE WORKING GROUP

2023 JUNE 28 | IDAHO FALLS, IDAHO

WORKFORCE SESSION

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National Skills Academy Nuclear (UK)

DISCUSSION POINTS

What makes this particular point in time so pivotal when it comes to education and training?

What are some specific actions being taking by Idaho to address future workforce needs?

CHANGE: MAKE OR BECOME DIFFERENT

- First Industrial Revolution: ~1840s, water and steel
- Second Industrial Revolution: ~Late 1800's, petroleum and electricity
 - Knowledge must be obtained
 - Industrial based economy (50% of jobs in 1947 to 15% in 2020)
- Digital Revolution
 - ~1970 with Computers – 80's, Internet – 90's, Smart Phones – 2000's, AI – 2020
 - Knowledge is accessed (data)
 - Knowledge based economy
- Historically education has changed by adaptation and innovation
 - Change accelerated by demographic, pandemic, technology

In times of accelerated change our social programs (like education, media, finance, government, etc.), created in a different time seem to be cumbersome and no longer work as they once did. They appear to be broken.

EDUCATION

INDUSTRY-BASED VS. KNOWLEDGE-BASED ECONOMIES

- **Education in an industry-based economy**
 - Follows industrial modeling with success defined primarily by process and maximum output
 - Enroll and progress by age
 - Time and process are fixed – outcomes are variable
 - Large percentage of the workforce only require High School education
- **Education in a knowledge-based economy**
 - Acquisition of knowledge becomes the variable – outcomes are fixed
 - Education shifts from standardized time and process to adopting uniform student outcomes
 - The recession of 2007-11 was the first wave of the knowledge economy (M)

WHAT DOES EDUCATION AND TRAINING LOOK LIKE GOING FORWARD?

- **Personalized Learning**
- **Digital and blended learning become common with classroom interaction be used to mentor and reinforce learning concepts**
- **Evolving job markets will drive lifelong learning**
- **Rote memorization and standardized testing will give way to project-based learning, hands-on experiences, and real-world applications. Credentials become significant.**
- **Greater emphasis on Creativity and Problem-Solving**
- **Data analytics and AI-based assessment tools will provide more comprehensive insights into individual progress and learning outcomes.**
- **Schools become educational suppliers (shopped)**
- **High School Graduation becomes less of a milestone (k-14 will become the standard)**
- **Higher Education is no longer the “keeper of the Flame”**
- **It's important to note that while technology will be a crucial enabler, the human element in education, such as mentorship, emotional support, and social interaction, will remain essential.**



IDAHO STATE LEGISLATURE 2023 SESSION

HB24/SB1167

Idaho Launch Program

HB269a

Career Exploration

HB267

Career Ready Students

SB1070

Career Technical Centers