



ELEMENT 5: ALIGNMENT WITH CAREER PATHWAYS AND POST-SECONDARY EDUCATION RESILIENCY RESOURCES & PROMISING PRACTICES

To support the long-term sustainability of apprenticeship expansion, states are creating clear linkages to secondary and postsecondary education programs. Strategies that are helping to embed apprenticeship as both an education and a training model in states include expanding youth apprenticeship offerings, integrating apprenticeship into career and technical education, and pursuing policy changes that allow apprenticeships to connect seamlessly with postsecondary educational pathways. The following are resources specific to both apprenticeship program education pathways and alignment, and to overall education and training solutions that can be applied in an apprenticeship environment impacted by economic downturn.

TOOLS, RESOURCES, AND THOUGHT LEADERSHIP

Overall Approaches to a Virtual Shift

- A Maher & Maher blog post titled "[Resiliency to Enliven Experimental Learning Now More than Ever](#)" provides thoughts on a shift to resilient virtual and alternative delivery methods in apprenticeship and work-based learning (WBL), including a simple checklist for shifting to remote WBL.

Resources for Virtual Related Technical Instruction (RTI)

- DOL ETA Bulletin 2020-51, which outlines the flexibilities available for the delivery of RTI, can be found here: [Flexibilities Available for the Delivery Method of Related Instruction](#).
- [SkillsCommons](#) includes over 400 open courseware, complete curriculum, evidenced-based interactive training, and support materials organized by sector, as well as instructor trainings.
- [COVID-19 Open Education Community and Contributed Resources](#) is a crowdsourced page that provides real-time feedback from faculty and includes resources on online labs. Note: this is a Google doc that is consistently updated.
- [CTE Coalition](#) includes a portal for industry-driven remote learning content including hundreds of classes, videos, and instructional materials in areas such as machining, welding, mechatronics, industry 4.0, and programming.
- [AdvanceCTE COVID-19 Resources](#) is a website of resources and updates to aid in the delivery of high-quality CTE virtually.
- [Southern New Hampshire University](#) suggested best practices on remote teaching, online student engagement, and supporting diversity in online learning.

Connecting Instructors/RTI Providers with Apprentices

- [Edchoice.org](#) lists free tools to help educators and students connect while social distancing, including video conference tools, collaboration tools, and helpful family resources for e-learning and working.

- [Google Resources for Educators](#) helps teachers explore distance learning strategies and tools.
- [The Journal](#), an education-focused website and newsletter, has updated as recently as April 21st a list of several educational resources who are extending free and reduced pricing options due to COVID-19's impact. The resources included could aid various audiences, including teachers, children, and adult learners. The comprehensive list of resources is provided in alphabetical order.

Alignment with WIOA Youth Programming

- A collection of [USDOL WIOA Youth Program Resources for Coronavirus](#) have been curated by the National Association of State Workforce Agencies (NASWA), including virtual engagement resources, strategies, and tools for youth in this time of health and economy challenges.

PROMISING PRACTICES

Virtual Training and On-the-Job Learning Strategies

- The [American Association of Community Colleges](#) spotlights how community colleges are creatively handling clinicals and apprenticeships virtually during a time of social distancing, including creative strategies for providing hands-on experience.
- [Career and technical high schools](#) in **Massachusetts** are going remote, and this *Atlantic* article discussed how “some of the country’s most experienced and accomplished teachers” are identifying and responding to student needs in this environment.
- Persona Learning discusses how the [Boilermakers National Apprenticeship Program](#) has created an online interactive training system to benefit boilermaker apprentices.

Utilizing Career Pathways to Support Apprenticeship and Industry Skill Shifts

- The **Colorado** Community College System has created a [comprehensive industry map resource](#) that presents detailed career pathway maps in the industry at [Colorado’s Advanced Manufacturing Industry](#). Career pathway tools can help students/learners, educators, and other apprenticeship leaders focus on transferable skills within an industry to target new education and apprenticeship partnerships and focus on shifts to growing occupations as the economy shifts.

Alignment with Post-Secondary Institutions

- [ApprenticeOhio’s](#) significant efforts to align apprenticeship and post-secondary pathways have produced strong results across industry sectors and both traditional and non-traditional industries and occupations, many of which have provided a pathway to a post-secondary degree attainment. At the same time, strategies that engage colleges and universities as both related instruction providers and sponsors have resulted in credit-bearing opportunities for apprentices. Aligning credit-bearing programs with apprenticeship can produce an increasingly qualified workforce for business, and additional industry-recognized education and credentials for apprentices that are valuable in a volatile economy.