JFYNet AI Leadership Institute - Track 3

AI Vo-Tech: Vocational Technical Educators

The JFYNet AI Leadership Institute's Vo-Tech track is designed for vocational and technical educators to integrate AI into their disciplines. Participants will gain hands-on strategies for applying AI tools across various industries enabling them to develop curriculum that prepares students for the future workforce. The program emphasizes practical applications for enhancing instruction, addressing ethical considerations of AI, and exploring industry-specific AI uses to align curricula with evolving standards. Ultimately, educators will create AI-enhanced curriculum modules and build a portfolio of AI tool usage, becoming recognized as AI Vocational Education Innovators.

Audience

- Vocational, Technical, Agricultural, Career and Technical Educators
- Teacher-leaders/coaches and program coordinators within Voc-Tech/CTE fields
- Educators interested in innovative learning models connected to emerging industries

Key Benefits

- Gain hands-on strategies for integrating AI into vocational technical disciplines.
- Explore and apply AI tools relevant to industry pathways like automotive, construction, design, engineering, graphic arts, health care, manufacturing, computer programming, multimedia, robotics and more.
- Develop curriculum and lesson plans that incorporate industry-aligned AI applications and prepare students for the future workforce.
- Learn how to use AI to enhance traditional vocational instruction, including areas like literacy and vocabulary in the vocational setting, and work-based learning.
- Collaborate with peers and specialists to share best practices for AI adoption in Voc-Tech and CTE settings.
- Understand the ethical considerations and responsible use of AI within vocational contexts, such as data privacy and the impact of automation on trades.
- Access resources to stay current with rapidly evolving AI tools and applications.

What You'll Learn

- Fundamentals of AI and generative AI, tailored to relevant to vocational fields.
- Practical application of AI tools for efficiency in the Voc-Tech classroom, including using AI for lesson planning, assessment, and differentiation.
- Integrate AI concepts into technical curricula and academic subjects.
- Explore industry-specific AI applications such as predictive maintenance, automation, quality control, generative design optimization; AI in diagnostic tools, telemedicine in healthcare; AI for precision agriculture and AI in IT/Cybersecurity.
- Design and implement project-based learning using AI tools relevant to vocational trades.
- Strategies for teaching students about AI relevant to their future careers, including AI skill demands and AI productivity in their chosen fields.
- Leveraging AI to update and align curricula with rapidly evolving industry standards.
- Build micro-credential or digital badge ecosystems to validate student learning.

Deliverables

- Portfolio of AI Tool Use Examples relevant to vocational teaching and student projects.
- Plan for Integrating AI Literacy and Relevant AI Applications into existing programs.
- Recognition as JFY AI Vocational Education Innovator.
- AI Toolkit with curated tools and resources for vocational educators.