

Instructional Scenario

Exploring AI and Employability Skills



Course/Duty Area: Artificial Intelligence Fundamentals/ Developing Employability Skills

Scenario: You are a career coach working with high school students preparing for future employment opportunities in AI-related industries. Your task is to guide students through the process of researching AI-related careers, updating their résumés for digital review, composing cover letters, and preparing for job interviews. Additionally, students will explore lifelong learning opportunities and identify potential employment barriers for nontraditional groups, along with strategies to overcome them.

Big Question: What employability skills are necessary for AI-related careers, and what strategies can students use to effectively prepare for the job market?

Focused Questions:

- What AI-related career opportunities are there?
- How does AI affect innovation, efficiency, and various industries?
- What are best practices for crafting résumés and cover letters optimized for AI-based hiring systems?
- How can students prepare for job interviews?
- What barriers do nontraditional groups face in employment, and what strategies can help overcome them?

Student Project or Outcome: Students will research AI-related careers, update their résumés to align with digital screening methods, compose a professional cover letter, and participate in mock interviews. They will also develop an AI-focused career portfolio showcasing their skills and knowledge. Additionally, students will analyze employment barriers and propose strategies to address them.

Project-Based Assessment: Students will compile a professional employment package, including a résumé, cover letter, and portfolio. They will participate in a mock interview and receive feedback from peers and the teacher. Students will also present a report on employment barriers and solutions in AI-related fields.

Teacher Resources:

- [VOEE, VEDP](#)
- [GoVirginia](#)
- [Critical Technology Areas, Office of Strategic Capital, DoD](#)
- [Occupational Outlook Handbook, BLS](#)
- [Virginia CTE Trailblazers](#)

Note: This instructional scenario was created with the help of AI.