

Instructional Scenario

The Future of AI and Work



Course/Duty Area: Artificial Intelligence Fundamentals/Exploring Current and Emerging AI Trends in Industry

Scenario:

Technological advancements in artificial intelligence (AI) are transforming industries at an unprecedented pace. From agriculture to healthcare, and from finance to manufacturing, AI is changing the nature of jobs, creating new career opportunities, and reshaping workforce demands.

In the city of Innovora, businesses across various career clusters are adopting AI to optimize processes, improve efficiency, and enhance decision-making. Healthcare facilities use AI for diagnostics and patient care, finance companies leverage machine learning for fraud detection, and manufacturing plants implement automation for quality control. As these advancements continue, understanding how AI impacts different career clusters is essential for preparing for the future of work.

As part of Innovora's Career Futures Initiative, you are tasked with examining the impact of current and future AI technological advancements across multiple career clusters. Your mission is to study how AI is influencing job roles, creating new career opportunities, and transforming workforce skills. After analyzing these trends, you will propose strategies for adapting to these changes and ensuring career readiness.

Big Question:

How are current and future AI technological advancements affecting career opportunities across various career clusters, and how can individuals prepare for these opportunities?

Focused Questions:

- Which career clusters are most significantly affected by current AI applications, and how is AI transforming job roles within these clusters?
- What new career opportunities are emerging as a result of advancements in AI technology?
- How might future technological advancements in AI continue to reshape workforce demands and required skill sets?
- What strategies can individuals and industries adopt to remain competitive and career-ready in an AI-driven world?

Student Project or Outcome:

Students will work in teams to create a comprehensive research report or multimedia presentation on AI and the Future of Work. Each team will select a specific career cluster and investigate

- current AI applications and their impact on job roles
- emerging career opportunities driven by technological advancements
- future predictions of how AI will continue to evolve within the cluster
- recommendations for skill development and career readiness.

Project-Based Assessment:

The final assessment may involve a formal presentation to a panel of educators, industry professionals, and peers. Teams would be evaluated on

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- depth and accuracy of research on AI advancements and career impacts
- creativity and feasibility of predictions regarding future job opportunities
- practicality and relevance of skill development recommendations
- quality and professionalism of presentation.

Teacher Resources:

- Research articles and reports on AI and workforce transformation
- Case studies of AI implementation in various career clusters
- Career readiness frameworks and skill development guidelines
- Collaboration tools for research and presentation development
- Workforce Transformation & Skill Development:
 - [Human-first, machine enhanced: the role of AI in workforce transformation](#), orgvue
 - [Ethics of Artificial Intelligence](#), UNESCO
- Ethical AI in Workforce & Career Clusters:
 - Principles for the Ethical Use of Artificial Intelligence in the United Nations System, United Nations
 - [AI Ethics Policy Template](#), AI Guardian

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