

uCertify

Course Outline

AI and the Future of Education



06 Jul 2024

1. Course Objective
2. Pre-Assessment
3. Exercises, Quizzes, Flashcards & Glossary
Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

Syllabus

Chapter 1: Introduction

Chapter 2: Embracing AI in Education

Chapter 3: Defining AI

Chapter 4: Reframing Education in the Age of AI

Chapter 5: Adapting Pedagogy for AI Integration

Chapter 6: Using AI in Curriculum Development

Chapter 7: Automating Administrative Tasks

Chapter 8: Boosting Engagement and Motivation

Chapter 9: Teaching Students about AI

Chapter 10: Ethical Considerations for AI in Education

Chapter 11: Teacher Professional Development in the AI Era

Chapter 12: Adapting and Growing with AI in Education

Videos and How To

9. Practice Test

Here's what you get

Features

10. Performance Based labs

Lab Tasks

Here's what you get

1. Course Objective

Study AI applications like intelligent tutoring systems, automated grading and feedback, personalized and adaptive learning, and AI-powered teaching assistants. Examine the ethical implications of AI in education, including bias, privacy, and accessibility concerns. Discover how AI can optimize school administration through smart scheduling, resource allocation, and student support services. Learn best practices for responsibly implementing AI tools and systems in educational settings.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

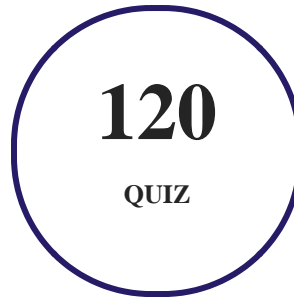
3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

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EXERCISES

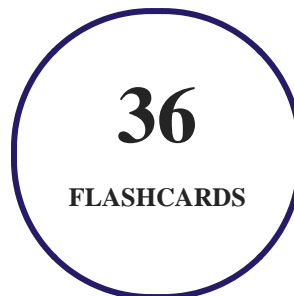
4. Quiz

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



5. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**

1. Best Postsecondary Learning Solution

- **2015**

1. Best Education Solution
2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform

2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Introduction

- WHO THIS COURSE IS FOR?
- WHAT THIS COURSE COVERS?
- TO GET THE MOST OUT OF THIS COURSE

Chapter 2: Embracing AI in Education

- OPPORTUNITIES AND CHALLENGES: AI IN THE CLASSROOM
- SUSTAINABLE AI INTEGRATION STRATEGIES
- CONCLUSION

Chapter 3: Defining AI

- FUNDAMENTALS OF AI AND MACHINE LEARNING
- EXPLORING GENERATIVE AI
- EFFECTIVE PROMPT WRITING FOR TEACHERS
- CONCLUSION

Chapter 4: Reframing Education in the Age of AI

- PREPARING STUDENTS FOR THE AI-DRIVEN WORKFORCE
- DEVELOPING AI LITERACY AND COMPUTATIONAL THINKING
- FOSTERING A GROWTH MINDSET AND LIFELONG LEARNING CULTURE
- CULTIVATING CREATIVITY AND INNOVATION SKILLS IN THE AI ERA
- CONCLUSION

Chapter 5: Adapting Pedagogy for AI Integration

- LEARNING THEORIES IN THE AI ERA: CONSTRUCTIVIST, BEHAVIORIST, AND SOCIOCULTURAL APPROACHES
- ACTIVE LEARNING AND AI: TRANSFORMING THE CLASSROOM EXPERIENCE
- PROBLEM? AND PROJECT?BASED LEARNING STRATEGIES WITH AI
- BLOOM'S TAXONOMY AND CRITICAL THINKING SKILLS IN THE AI?ENHANCED CLASSROOM
- DIFFERENTIATED INSTRUCTION: AI?GENERATED CUSTOMIZED ACTIVITIES
- FOSTERING COLLABORATION AND RELATIONSHIP?BUILDING THROUGH AI INTEGRATION
- INQUIRY?BASED LEARNING AND AI: ENCOURAGING STUDENT?CENTERED EXPLORATION
- CONCLUSION

Chapter 6: Using AI in Curriculum Development

- LESSON PLANNING AND CURRICULAR DESIGN
- CREATING LEARNING ASSETS
- FORMATIVE ACTIVITIES: GENERATED WORKSHEETS, GAMES, AND MORE
- SUMMATIVE ASSESSMENTS: QUIZZES, RUBRICS, AND PERFORMANCE TASKS
- IMPLICATIONS FOR SPECIAL EDUCATION, ELL, AND INCLUSIVE CLASSROOMS

- DISTANCE AND REMOTE EDUCATION
- CONCLUSION

Chapter 7: Automating Administrative Tasks

- STREAMLINING COMMUNICATION AND SCHEDULING
- AI-ENHANCED FEEDBACK AND GRADING
- OPTIMIZING PAPERWORK AND RECORDKEEPING TASKS
- CONCLUSION

Chapter 8: Boosting Engagement and Motivation

- INTELLIGENT TUTORING SYSTEMS
- PERSONALIZED LEARNING PATHWAYS
- GAMIFICATION AND LEARNING EXPERIENCES
- DEBATES AND DISCUSSIONS
- EXECUTIVE FUNCTIONING AND SOCIAL-EMOTIONAL LEARNING
- CONCLUSION

Chapter 9: Teaching Students about AI

- RESPONSIBLE AND ETHICAL USE OF AI

- DIGITAL CITIZENSHIP IN THE AI ERA
- REFINING AND ITERATING ON AI-GENERATED CONTENT
- ADDRESSING AI-RELATED MISINFORMATION AND BIAS
- CONCLUSION

Chapter 10: Ethical Considerations for AI in Education

- REDUCING, NOT EXPANDING, THE ACHIEVEMENT GAP
- ADDRESSING THE DIGITAL DIVIDE AND ENSURING ACCESS
- PROTECTING STUDENT PRIVACY AND DATA SECURITY
- CONCLUSION

Chapter 11: Teacher Professional Development in the AI Era

- THE IMPORTANCE OF CONTINUED ADAPTATION AND GROWTH
- ESSENTIAL AI COMPETENCIES FOR EDUCATORS
- LEVERAGING AI FOR PERSONAL AND PROFESSIONAL DEVELOPMENT
- CONCLUSION

Chapter 12: Adapting and Growing with AI in Education

12. Practice Test

Here's what you get



Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

13. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

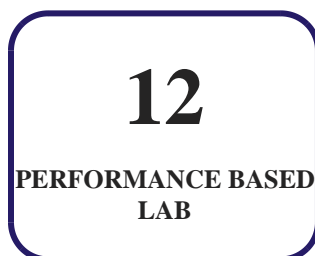
- Provide hands-on experience in a safe, online environment

- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

Lab Tasks

- Prompt for Generating Lesson Planning and Curricular Design
- Prompt for Generating Presentation Content
- Prompt for Generating Questions
- Prompt to Compose an Essay
- Prompt for the Content Modification
- Prompt for Creating a 5-minute YouTube Video Script Universal Design for Learning Principles (UDL)
- Prompt to Draft an Email
- Prompt to Compose a Detailed Critique
- Prompt for Generating an Announcement for a School Event Celebrating International Cultural Day
- Prompt for Writing a Speech
- Prompt for Generating a Set of Guidelines for Employees on Cybersecurity Best Practices
- Prompt to Write a 100-word Speech Addressing the... of Promoting Mental Health Awareness in Schools

Here's what you get



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