

uCertify

Course Outline

AI Essentials



15 May 2026

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

Syllabus

Chapter 1: Introduction

Chapter 2: Introduction to Artificial Intelligence

Chapter 3: How AI Thinks and Learns

Chapter 4: Exploring Generative AI

Chapter 5: Writing Prompts That Guide AI

Chapter 6: Using AI to Boost Work and Creativity

Chapter 7: Ethics and Privacy in the AI Era

Chapter 8: The Future of AI and What's Ahead

Chapter 9: Appendix

Videos and How To

7. Performance Based labs

Lab Tasks

Here's what you get

1. 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.

57
EXERCISES

2. 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.

70
QUIZ

3. 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.

84
FLASHCARDS

4. 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.



5. 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.

6. 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.

7. 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.

8. 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

9. 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

Chapter 2: Introduction to Artificial Intelligence

- What is Artificial Intelligence?
- History and Evolution of AI
- Types of AI: General and Narrow
- AI vs. Human Intelligence
- Key Areas: Machine Learning, NLP, and Robotics
- How AI is Rapidly Advancing Across Various Fields
- Summary

Chapter 3: How AI Thinks and Learns

- How AI Systems Learn from Data and Experience
- How Machines Recognize Patterns and Make Predictions
- The Process of Training AI Using Examples and Feedback
- How Inputs are Turned into Intelligent Outputs
- How AI Improves over Time Through Retraining

- AI Usage in Tools like Assistants and Smart Apps
- Summary

Chapter 4: Exploring Generative AI

- What Generative AI is and How it Creates New Content
- Differences Between Generative Models and Traditional AI Systems
- How Tools Like ChatGPT, DALL·E, and Others Generate Text and Images
- Real-World Uses of Generative AI in Creativity and Productivity
- Challenges and Concerns with Content Generation
- The Future Potential of Generative Systems
- Summary

Chapter 5: Writing Prompts That Guide AI

- What Prompts Are and How They Guide AI Responses
- Types of Prompts Including Zero-Shot, Few-Shot, and Structured Prompts
- How to Write Clear, Effective Prompts for Different Tasks
- How Context and Phrasing Affect AI Output
- Common Mistakes in Prompt Writing and How to Fix Them
- Practice Examples for Improving Prompting Skills

- Summary

Chapter 6: Using AI to Boost Work and Creativity

- How AI Tools Support Productivity in Writing, Coding, and Design
- How Students, Professionals, and Creators Benefit from AI
- Ways to Integrate AI into Daily Tasks and Creative Projects
- The Role of Human-Machine Collaboration
- Limitations and Responsible Use of AI Tools
- Summary

Chapter 7: Ethics and Privacy in the AI Era

- Ethics of Intelligent Systems
- Understanding AI Bias, Fairness, and Accountability
- How Personal Data is Used and Protected in AI Systems
- Legal and Social Concerns Surrounding Privacy in AI
- Examples of Ethical Challenges in Real-World AI Use
- Best Practices for Using AI Responsibly and Transparently
- Summary

Chapter 8: The Future of AI and What's Ahead

- Emerging Trends in Autonomous Car Technology
- The Growing Role of AI in Finance, Healthcare, and Human Resources
- How AI is Reshaping Jobs, Skills, and the Workplace
- Innovations on the Horizon such as AI Agents and Chatbots
- The Importance of Staying Informed about AI Developments
- AI and the Battlefield—Opportunities, Risks, and Ethical Dilemmas
- Summary

Chapter 9: Appendix

- What Is Artificial Intelligence? Complete Beginner Guide + Career Options

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

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VIDEOS

10

MINUTES

10. 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

- Exploring the Fundamentals of Artificial Intelligence
- Exploring How Intelligent Systems Learn and Improve Over Time
- Exploring Emerging Trends in Artificial Intelligence
- Exploring Image Generation via DALL·E through ChatGPT
- Practicing Effective Prompting
- Using AI Responsibly and Recognizing Its Limits
- Exploring Ethics in AI Decision-Making
- Exploring the Future of AI in Work, Society, and Warfare

Here's what you get

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PERFORMANCE BASED LAB

1

VIDEO TUTORIALS

You can't stay away! Get

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