

# uCertify

## Course Outline

### Artificial Intelligence and Big Data



02 May 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: Preface

Chapter 2: Introduction

Chapter 3: What is Intelligence?

Chapter 4: Digital Learning

Chapter 5: The Reign of Algorithms

Chapter 6: Uses for Artificial Intelligence

Chapter 7: Appendix A: Big Data

Chapter 8: Appendix B: Smart Data

Chapter 9: Appendix C: Data Lakes

Chapter 10: Appendix D: Comparison Between Machine Learning and Traditional Business Intelligence

Chapter 11: Appendix E: Conceptual Outline of the Steps Required for Customization Solution based on Machine Learning

Chapter 12: Appendix F: Some Vocabulary Relevant to Artificial Intelligence

Videos and How To

9. Practice Test

Here's what you get

Features

10. Post-Assessment

## 1. Course Objective

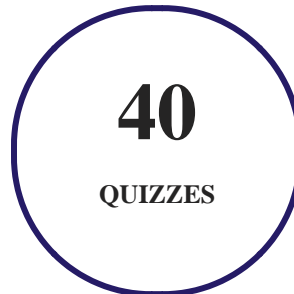
uCertify offers the Artificial Intelligence and Big Data Vol 8 course for students who want to learn more about Artificial intelligence. This artificial intelligence course will help you learn AI and big data concepts such as digital learning, reign of the algorithm, smart data, data lakes, and many more. It also covers the use of artificial intelligence such as customer experience management, “Smart” personal assistant (or agent), image and sound recognition, and more.

## 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.

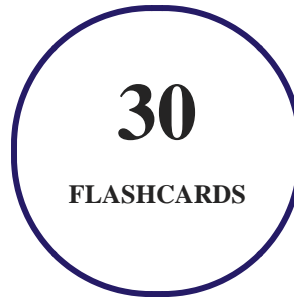
## 3. Quizzes

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.



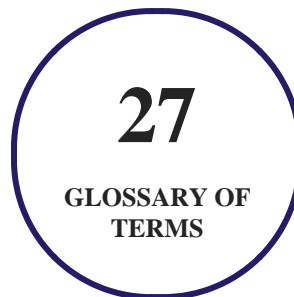
## 4. flashcards

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.



## 5. 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.



## 6. 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.

## 7. 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.

## 8. 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.

## 9. 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

## 10. 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: Preface

#### Chapter 2: Introduction

- The “fully” digital era is upon us, can we still escape it?
- How we are shifting from digital “unconsci...s” to digital “consciousness”?
- The traces we leave on the Internet (whether voluntarily or not) constitute our Digital Identity
- The digitization of our world continues, and con...vices are the next step (the Internet of Things)

#### Chapter 3: What is Intelligence?

- Intelligence
- Artificial Intelligence
- How BI has developed

## Chapter 4: Digital Learning

- What is learning?
- Big Data and the Internet of Things will reshuffle the cards
- Artificial Intelligence linked to Big Data will undoubtedly be the keystone of digital learning
- Supervised learning
- Enhanced supervised learning
- Unsupervised learning

## Chapter 5: The Reign of Algorithms

- What is an algorithm?
- A brief history of AI
- Algorithms are based on neural networks, but what does this mean?
- Why do Big Data and AI work so well together?

## Chapter 6: Uses for Artificial Intelligence



- Customer experience management
- The transport industry
- The medical industry
- “Smart” personal assistant (or agent)
- Image and sound recognition
- Recommendation tools

#### Chapter 7: Appendix A: Big Data

- The four Vs

#### Chapter 8: Appendix B: Smart Data

#### Chapter 9: Appendix C: Data Lakes

#### Chapter 10: Appendix D: Comparison Between Machine Learning and Traditional Business Intelligence

#### Chapter 11: Appendix E: Conceptual Outline of the Steps Required for a Customization Solution based on Machine Learning

#### Chapter 12: Appendix F: Some Vocabulary Relevant to Artificial Intelligence

## 11. Practice Test

## Here's what you get

**40**

PRE-ASSESSMENTS QUESTIONS

**40**

POST-ASSESSMENTS QUESTIONS

## 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.

## 12. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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