

uCertify

Course Outline

Information Technology for Management



16 Mar 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: Preface

Chapter 2: Harnessing the Power of Digital Transformation

Chapter 3: Information Systems, IT Infrastructure, and the Cloud

Chapter 4: Data Management, Knowledge Management, and Data Governance

Chapter 5: Networks, the Internet of Things (IoT), and Mobile Computing

Chapter 6: Data Privacy and Cybersecurity

Chapter 7: Business Intelligence, Data Science, and Data Analytics

Chapter 8: The World Wide Web and Social Media

Chapter 9: E-commerce, Mobile Commerce, Social Commerce, and Retail Technology

Chapter 10: Functional Business Systems

Chapter 11: Enterprise Systems

Chapter 12: Artificial Intelligence, Generative AI, Robotics, and Beyond

Chapter 13: IT Strategy, Sourcing, and Strategic Technology Trends

Chapter 14: Systems Development and Project, Program, and Portfolio Management

Chapter 15: Ethics and Local and Global Sustainability

Chapter 16: Glossary

Videos and How To

7. Live 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.

106
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.

420
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.

655
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: Preface

- What's New in the Thirteenth Edition?
- Engaging Students to Assure Learning
- Details of New and Enhanced Features of the Thirteenth Edition

Chapter 2: Harnessing the Power of Digital Transformation

- Introduction
- Digital Transformation
- Business Process Improvement and Competition
- IT Innovation and Disruption
- What's in IT for YOU?
- Lesson Summary
- Assuring Your Learning
- References

Chapter 3: Information Systems, IT Infrastructure, and the Cloud

- Introduction

- IS Concepts and Classification
- IT Infrastructure, IT Architecture, and Enterprise Architecture
- Data Centers and Cloud Computing
- Virtualization and Virtual Machines
- Lesson Summary
- Assuring Your Learning
- References

Chapter 4: Data Management, Knowledge Management, and Data Governance

- Introduction
- Data Management
- Modern Data Repositories
- Information and Knowledge Management
- Electronic Document and Electronic Record Management
- Data Governance and Master Data Management
- Lesson Summary
- Assuring Your Learning
- References

Chapter 5: Networks, the Internet of Things (IoT), and Mobile Computing

- Introduction
- Network Fundamentals
- Wireless Networks
- Mobile Computing
- Monitoring and Regulating Networks
- Lesson Summary
- Assuring Your Learning
- References

Chapter 6: Data Privacy and Cybersecurity

- Introduction
- Data Privacy Concerns and Regulations
- Cyberattacks and Cyber Threats
- Defending Against Cyberattacks and Managing Risk
- Cyber Defense Controls and Regulatory Frameworks
- Lesson Summary

- Interactive Exercises
- References

Chapter 7: Business Intelligence, Data Science, and Data Analytics

- Introduction
- Business Intelligence and Data Science
- Descriptive Data Analytics Tools and Techniques
- Big Data and Advanced Data Analytics
- Predictive and Prescriptive Data Analytics Tools and Techniques
- Lesson Summary
- Assuring Your Learning
- References

Chapter 8: The World Wide Web and Social Media

- Introduction
- Evolution of the World Wide Web
- Social Media Tools and Applications
- Search Technology and the Semantic Web
- Recommendation Engines

- Lesson Summary
- Assuring Your Learning
- References

Chapter 9: E-commerce, Mobile Commerce, Social Commerce, and Retail Technology

- Introduction
- Omnichannel Retailing
- In-Store Retailing Technology
- E-commerce Strategies and Technologies
- Mobile and Social Commerce Technologies
- Digital Payment Technologies
- Lesson Summary
- Assuring Your Learning
- References

Chapter 10: Functional Business Systems

- Introduction
- Functional and Cross-Functional Business Processes

- Production and Operations Management Systems
- Sales and Marketing Management Systems
- Accounting and Finance Systems
- Human Resource Information Systems (HRIS)
- Lesson Summary
- Assuring Your Learning
- References

Chapter 11: Enterprise Systems

- Introduction
- Intro to Enterprise Systems
- Enterprise Resource Planning
- Supply Chain Management
- Customer Relationship Management
- Enterprise Content Management and Enterprise Social Networks
- Lesson Summary
- Assuring Your Learning
- References

Chapter 12: Artificial Intelligence, Generative AI, Robotics, and Beyond

- Introduction
- An Introduction to Artificial Intelligence (AI)
- Using and Managing AI
- Using Generative AI in Business and Management
- Robotics
- Quantum and Neuromorphic Computing
- Lesson Summary
- Assuring Your Learning
- References

Chapter 13: IT Strategy, Sourcing, and Strategic Technology Trends

- Introduction
- IT Strategy and Competitive Advantage
- IT Strategic Planning, Process, and Tools
- IT Sourcing Strategies and IT Service Management
- Strategic Technology Trends
- Lesson Summary

- Assuring Your Learning
- References

Chapter 14: Systems Development and Project, Program, and Portfolio Management

- Introduction
- Systems Development
- Systems Development Methodologies
- Project, Program, and Portfolio Management (PPPM)
- Initiating, Planning, and Executing Projects
- Monitoring/Controlling and Closing Projects
- Lesson Summary
- Assuring Your Learning
- References

Chapter 15: Ethics and Local and Global Sustainability

- Introduction
- An Introduction to Business Ethics and Cyberethics
- IT's Role in Corporate Social Responsibility and Sustainability

- IT and Global Sustainability
- Lesson Summary
- References

Chapter 16: Glossary

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

02:13

HOURS

10. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Harnessing the Power of Digital Transformation

- Driving Digital Transformation in Modern Businesses

Information Systems, IT Infrastructure, and the Cloud

- Evaluating Cloud Solutions and Industry Impacts
- Creating a Private Virtual Network
- Creating a Virtual Network in Azure
- Implementing a New Virtual Machine

Data Management, Knowledge Management, and Data Governance

- Connecting Governance Principles With Real-World Incidents

Networks, the Internet of Things (IoT), and Mobile Computing

- Creating a Remote Access VPN Connection
- Securing a Wi-Fi Hotspot
- Examining Network and IoT Innovations

Data Privacy and Cybersecurity

- Simulating a DDoS Attack
- Implementing MFA on Mobile Devices
- Analyzing a Phishing Attack
- Analyzing Malware Using VirusTotal
- Exploiting a Website Using SQL Injection
- Implementing an Intrusion Detection System
- Reinforcing Organizational Safety by Learning from Attacks
- Implementing Physical Security

Business Intelligence, Data Science, and Data Analytics

- Leveraging Advanced Analytics for Real-World Business Impact

The World Wide Web and Social Media

- Reviewing YouTube and Digital Content Recommendations

E-commerce, Mobile Commerce, Social Commerce, and Retail Technology

- Tracing the Growth of Social and Mobile Commerce

Functional Business Systems

- Implementing Technology in Sales and Marketing

Enterprise Systems

- Learning from Enterprise System Implementation Challenges

Artificial Intelligence, Generative AI, Robotics, and Beyond

- Integrating AI with Next-Generation Computing

IT Strategy, Sourcing, and Strategic Technology Trends

- Exploring Estonia's Digital Advantage

Systems Development and Project, Program, and Portfolio Management

- Evaluating Stakeholder Roles in Project Success

Ethics and Local and Global Sustainability

- Evaluating National Security Concerns from EV Technology

Here's what you get

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LIVE LABS

12

VIDEO TUTORIALS

20

MINUTES

You can't stay away! Get

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