

**uCertify**

# Course Outline

**Management Information System (MIS)**



03 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: Preface  
Chapter 2: Importance of MIS  
Chapter 3: Organizational Strategy and Information Systems Strategy  
Chapter 4: Business Information Systems  
Chapter 5: Hardware  
Chapter 6: Software  
Chapter 7: Mobile Systems  
Chapter 8: Database Processing  
Chapter 9: Data Communication and Networking  
Chapter 10: Cloud Computing  
Chapter 11: Global E-Business  
Chapter 12: Collaboration Information Systems  
Chapter 13: Achieve Competitive Advantage with Information Systems  
Chapter 14: Information Systems Security  
Chapter 15: Ethical and Social Issues in Information Systems  
Chapter 16: Information Systems Development and Management  
Videos and How To
9. Practice Test

Here's what you get

Features

10. Performance Based labs

Lab Tasks

Here's what you get

11. Post-Assessment

## 1. Course Objective

Discover the power of Management Information System (MIS) through our engaging and dynamic course. With interactive lessons, quizzes, test preps, and hands-on labs, you'll gain a comprehensive understanding of how MIS controls crucial hardware and software systems for effective decision-making within organizations. Covering MIS historical significance as the backbone of early enterprise computing to its evolution into a broader range of internal systems, the course will equip you with the knowledge and skills needed to excel in the ever-changing field of information systems management.

## 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.

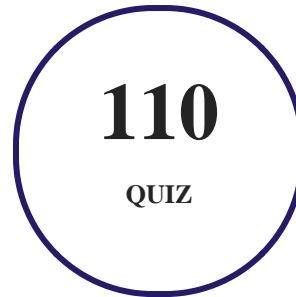
## 3. Exercises

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.

**169**  
EXERCISES

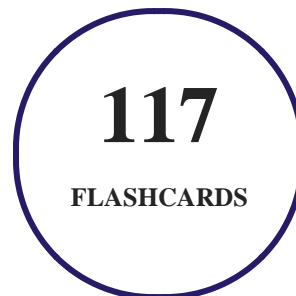
## 4. Quiz

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.



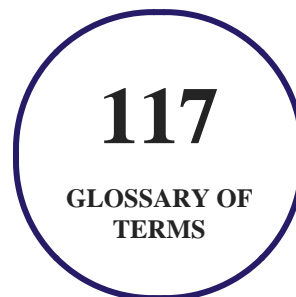
## 5. flashcards

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: Preface

- MIS Versus IT Management

#### Chapter 2: Importance of MIS



- What Is MIS?
- What Are the Objectives of MIS?
- What Are the Characteristics of MIS?
- What Are the Functions of MIS?
- What Are the Common Challenges of Implementing MIS in Organizations?
- Summary

### Chapter 3: Organizational Strategy and Information Systems Strategy

- What Is an Organizational Strategy?
- What Are the Key Elements of an Organizational Strategy?
- How Do You Develop a Good Organizational Strategy?
- What Is an Information Systems Strategy?
- What Is the Importance of Aligning Organizational and Information Systems Strategies?
- Summary

### Chapter 4: Business Information Systems

- What Is the Business Information System (BIS)?
- How Do Organizations Use Business Intelligence (BI) Systems?
- What Is the Impact of BIS on Your Career?

- Summary

## Chapter 5: Hardware

- What Do Business Professionals Need to Know About Computer Hardware?
- How Can New Hardware Affect Competitive Strategies?
- Summary

## Chapter 6: Software

- What Do Business Professionals Need to Know About Software?
- What Is the Importance of Virtualization?
- What Are the Differences Between Native and Web Applications?
- Summary

## Chapter 7: Mobile Systems

- Why Are Mobile Systems Increasingly Important?
- What Are the Challenges of Personal Mobile Devices at Work?
- Summary

## Chapter 8: Database Processing

- What Is a Database?
- What Is Database Processing?
- What Is a Database Management System (DBMS)?
- How Are Data Models Used for Database Development?
- How Is a Data Model Transformed into a Database Design?
- Summary

## Chapter 9: Data Communication and Networking

- What Is Data Communication and Networking?
- What Are Network Topologies and Protocols?
- What Are Internet, Intranet, and Extranet?
- What Is Wireless Technology?
- Summary

## Chapter 10: Cloud Computing

- Why Are Organizations Moving to the Cloud?
- What Network Technology Supports the Cloud?
- Summary

## Chapter 11: Global E-Business

- What Is Global E-Business?
- What Is E-Commerce?
- What Is Supply Chain Management (SCM)?
- Summary

## Chapter 12: Collaboration Information Systems

- What Are the Criteria for Successful Collaboration?
- What Are the Primary Purposes of Collaboration?
- Which Collaboration Tool Is Right for a Team?
- Summary

## Chapter 13: Achieve Competitive Advantage with Information Systems

- How Do Information Systems Provide Competitive Advantages?
- How Can Information Systems Improve Process Quality?
- How Do AI, CRM, ERP, and EAI Support Enterprise Processes?
- What Are the Challenges of Implementing and Upgrading Enterprise Information Systems?
- Summary

## Chapter 14: Information Systems Security

- What Is the Goal of Information Systems Security?
- How Should Organizations Respond to Security Threats?
- How Can Technical Safeguards Protect Against Security Threats?
- How Can Data Safeguards Protect Against Security Threats?
- How Can Human Safeguards Protect Against Security Threats?
- Summary

## Chapter 15: Ethical and Social Issues in Information Systems

- What Do You Mean by Ethical and Social Issues?
- What Are the Emerging Ethical and Social Issues in an Organization?
- What Is the Impact of Ethical and Social Issues on Organizations?
- How to Overcome Ethical and Social Issues in an Organization?
- Summary

## Chapter 16: Information Systems Development and Management

- How Are Business Processes, Information Systems, and Applications Developed?
- How Do Organizations Use Business Process Management (BPM)?

- What Are the Phases Involved in SDLC?
- How Does Scrum Overcome the Problems of SDLC?
- How Is Outsourcing Used to Manage Information Systems?
- What Are User Rights and Responsibilities?
- Summary

## 12. Practice Test

**Here's what you get**

**50**  
PRE-ASSESSMENTS  
QUESTIONS

**1**  
FULL LENGTH TESTS

**50**  
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.

## 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

- Identifying Activities
- Understanding Organizational Strategies
- Identifying Organizational and Information Systems Strategies
- Understanding Types of BI Analysis
- Identifying Development Languages for Applications
- Identifying Database Administration Tasks
- Identifying Components and Types of Networking
- Understanding Network Topologies
- Identifying Project Management Tasks
- Identifying Ethical and Social Issues

## Here's what you get



### 14. 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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