

Overview

In the modern business environment, many employees have specific roles and responsibilities related to information management systems, technology, and data systems. This module is designed to give learners a comprehensive overview of the IT function with specific instruction on information systems, business hardware and software, networks and telecommunications, and information-based decision-support systems.

This module is intended as a review of the key concepts, fundamentals, and foundations of the discipline.

Learners

This module is designed for learners who require an overview of the discipline. The module is commonly used in an academic leveling (transition to graduate education) or business review (capstone) course or program.

Module Authors

The author for this module is Peregrine Global Services, which is headquartered in Gillette, Wyoming. It includes materials from a variety of sources as indicated within the module.

Learning Outcomes

The learning outcomes for the module are as follows. With the completion of this module, learners should be able to:

1. Understand current information management technologies, such as databases, communication protocols, and cloud computing.
2. Identify the value added to data when it is processed into information to support problem-solving, decision-making, and knowledge management.
3. Understand the importance of risk and opportunity assessment, change management, and understanding of practical frameworks for resolving business challenges.
4. Understand current deliberations concerning privacy, corporate legal and ethical responsibility in modern society.
5. Recognize how decision support systems and expert systems are used in various domains and the value added by incorporating machine learning and artificial intelligence into business processes.
6. Gain knowledge of the roles within the Information Management Systems department.

7. Explain the difference between applications and operating system software and understand software licensing models.
8. Identify and describe various networking protocols, wireless technologies, and internet services.
9. Understand the role of Governance, Risk and Compliance, and appropriate project management in the building and managing of Information Management Systems

Curriculum

<u>Section</u>	<u>Topics</u>
Section 1: Organizations, Technology, and the Globalization Of Business	<ul style="list-style-type: none"> • How the Use of Technology in Business Support the Globalization of Business • System Types and Functions • Types of Information Management Systems and Needed Workforce • Ethical and Social Issues Related to Information Management Systems
Section 2: Business Information Technology Infrastructure	<ul style="list-style-type: none"> • Infrastructure Support • Identification of Operating Systems • Critical Storage and Management of Data • Responsibilities and Handling of Big Data • Tools and Technology for Accessing the Internet
Section 3: Key Technologies for The Knowledge Worker	<ul style="list-style-type: none"> • Improving Operational Excellence and Decision-Making • Utilizing Enterprise Systems • Understanding Cloud Computing Services • Basis for Business Intelligence and Artificial Intelligence • Identifying Machine Learning Applications

<p>Section 4: Securing Information Management Systems</p>	<ul style="list-style-type: none"> • The Evolution and Security Challenges of Information Management Systems • Policies, Procedures, to Prevent Infiltration to Information Systems • The Accuracy and Reliability of its Records • Controls to Ensure the Safety of the Organization’s Assets • Operational Adherence to Management Standards
<p>Section 5: Building and Managing Information Management Systems</p>	<ul style="list-style-type: none"> • Building and Managing Systems in Organizations • Activities to Create a New Information System • Approaches for Building System Solutions • Managing Information Systems Projects • Identifying Issues when Building and Maintaining Global Information Systems

Assessment

The module includes section quizzes and short exercises to ensure understanding of the instructional content. The module also includes a 20-question pre-test and post-test. The pre-test captures the learner’s baseline knowledge, and the post-test ensures that learners have grasped the concepts needed for success.

Hours and Articulation

Learner hours are shown in the following table. The hours are based on both the time within the module and time away from the module conducting application activities.

<u>Section</u>	<u>Hours</u>
Pre-test	0.25
Section 1: Organizations, Technology, and the Globalization of Business	0.50
Section 2: Business Information Technology Infrastructure	1

Section 3: Key Technologies for The Knowledge Worker	1
Section 4: Securing Information Management Systems	1
Section 5: Building and Managing Information Management Systems	1
Post-test	0.25
Total Hours	5