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# Course: Healthcare Information Systems Management

Code	City	Hotel	Start	End	Price	Language - Hours
372	Muscat (Oman)	Hotel Meeting Room	2025-08-17	2025-08-21	3950 €	En - 25

## Introduction

This is the most comprehensive course available for the field today. It should be required reading for every health care administrator, as it has been thoroughly revised and updated to reflect changes in the health care industry and the renewed focus on health care information technology initiatives, this course is a valuable training for health administration and health informatics students and professionals.

## Course Objectives

**On completion of this course you should be able to:**

- List and illustrate the various types of healthcare information
- Gain an excellent overview of foundational principles and practical strategies
- Apply the tools necessary to facilitate movement from a paper-based to an electronic health record environment while championing the importance of managing in such an environment.
- Deploy health care information technology and leverage investments while introducing significant change.
- Develop the skills required to enhance quality of patient care through the use of health care information technology and strategy considerations.
- Stimulate discussions on how to apply concepts included in the course to real-life scenarios through case studies of organizations experiencing management-related information system challenges.



# Course Outline

## Health Care Information

### Introduction to Health Care Information

- Types of Health Care Information
- Internal Data and Information: Patient Specific—Clinical
- Internal Data and Information: Patient Specific—Administrative
- Internal Data and Information: Patient Specific—Combining Clinical and Administrative
- Internal Data and Information: Aggregate—Clinical
- Internal Data and Information: Aggregate—Administrative
- Internal Data and Information: Aggregate—Combining Clinical and Administrative
- External Data and Information: Comparative
- External Data and Information: Expert or Knowledge Based

### Health Care Data Quality

- Data versus Information
- Problems with Poor-Quality Data
- Ensuring Data and Information Quality

### Health Care Information Regulations, Laws, and Standards

- Licensure, Certification, and Accreditation
- Patient Safety Organizations
- Legal Aspects of Managing Health Information

### Health Care Information Systems



## **History and Evolution of Health Care Information Systems**

- Definition of Terms
- History and Evolution

## **Clinical Information Systems**

- The Electronic Health Record
- Other Major HCIS Types
- Fitting Applications Together
- Overcoming Barriers to Adoption

## **Federal Efforts to Enhance Quality of Patient Care through the Use of Health Information Technology**

- HITECH Act
- Health Care Reform: New Modes of Care and Payment Reform
- Health Information Exchange
- Information Technology Ramifications of New Models of Care and Payment Reform

## **System Acquisition**

- System Acquisition: A Definition
- Systems Development Life Cycle
- System Acquisition Process
- Project Management Tools
- Things That Can Go Wrong

## **System Implementation and Support**

- System Implementation Process
- Managing the Organizational Aspects



- System Support and Evaluation

## **Information Technology**

### **Technologies That Support Health Care Information Systems**

- Information Technology Adoption Challenges
- Data Management and Access
- Networks and Data Communications
- Information Distribution Schemes
- Remote Access Technologies
- Internet and Web Concepts and Applications
- E-Commerce in Health Care
- Clinical and Managerial Decision Support
- Information Systems Architecture

### **Health Care Information System Standards**

- Standards Development Process
- Classification Standards
- Vocabulary and Terminology Standards
- Health Record Content and Functional Standards

### **Security of Health Care Information Systems**

- The Health Care Organization's Security Program
- Threats to Health Care Information
- Overview of the HIPAA Security Rule
- Outline of the HIPAA Security Rule
- HITECH Expansion of the HIPAA Security Rule
- Administrative Safeguards
- Physical Safeguards
- Technical Safeguards



- Security in a Wireless Environment
- Remote Access Security

## **Senior Management IT Challenges**

## **Organizing Information Technology Services**

- Information Technology Functions
- Organizing IT Staff and Services
- In-House versus Outsourced IT
- Evaluating IT Effectiveness

## **IT Alignment and Strategic Planning**

- IT Planning Objectives
- Overview of Strategy
- Vectors for Arriving at IT Strategy
- The IT Asset
- A Normative Approach to Developing Alignment and IT Strategy
- IT Strategy and Alignment Challenges
- Characteristics of Strategic Thinking

## **Strategy Considerations**

- Complementary Strategies
- Strategy Evolution
- Governing Concepts
- The Competitive Value of IT

## **IT Governance and Management**

- IT Governance



- IT Effectiveness
- IT Budget

## **Management's Role in Major IT Initiatives**

- Managing Change Due to IT
- Managing IT Projects
- Understanding IT Initiative Failures



**The Scandinavian Academy for Training and Development employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:**

• **Theoretical Lectures:**

- We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.

• **Scientific Assessment:**

- We evaluate trainees skills before and after the course to ensure their progress.

• **Brainstorming and Interaction:**

- We encourage active participation through brainstorming sessions and applying concepts through role play.

• **Practical Cases:**

- We provide practical cases that align with the scientific content and the participants specific needs.

• **Examinations:**

- Tests are conducted at the end of the program to assess knowledge retention.

• **Educational Materials:**

- We provide both printed and digital scientific and practical materials to participants.

• **Attendance and Final Result Reports:**

- We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.

• **Professionals and Experts:**

- The programs scientific content is prepared by the best professors and trainers in various fields.

• **Professional Completion Certificate:**

- Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.

• **Program Timings:**

- Training programs are held from 10:00 AM to 2:00 PM and include coffee break sessions during lectures.