

Human Factors in Healthcare

Course Schedule 2026

DAY ONE

Module 1 – 8:30 a.m. to 10 a.m.

Introduction to Human Factors in Healthcare

1. Define Human Factors and its role in healthcare as an applied discipline for healthcare improvement
2. Highlight various Human Factors evaluation methodologies
3. Identify relevant and reliable sources of information to engage in self-directed learning about Human Factors in healthcare

Module 2 – 10 a.m. to 12 p.m.

Human Error and Cognitive Biases

1. List and describe different types of cognitive errors
2. Differentiate between the person and system approach to error reduction
3. Identify various error reduction strategies

Lunch Break

Module 3 – 12:30 p.m. to 4 p.m.

Human Factors in the Design and Evaluation of Icons, Symbols, and Labels

1. Evaluate the design of generic labels, symbols, and icons in health care documentation applying knowledge of task analysis and heuristic evaluation
2. Define objective performance metrics to evaluate the effectiveness of labels, symbols, and icons
3. Discuss the potential risks of poorly designed labels, symbols, and icons

DAY TWO

Module 4 – 8:30 a.m. to 12 p.m.

Human Factors in the Design and Evaluation of Digital Interfaces

1. Define principles commonly utilized during a heuristic evaluation
2. Develop a usability test plan for an assessment of digital interfaces
3. Define reporting requirements for the evaluation of a digital user interface
4. Calculate aggregate performance metrics from usability test data

Lunch Break

Module 5 – 12:30 p.m. to 4 p.m.

Human Factors in Procurement

1. Describe the steps to conduct a task analysis for a 'simple' system
2. Analyze the strengths and limitations of common Human Factors methods for the purposes of procurement activities
3. Define information requirements [context of use] to be included to set up a usability test
4. Describe how Human Factors evaluation methodologies can be incorporated into procurement activities

DAY THREE

Module 6 – 8:30 a.m. to 12 p.m.

Human Factors in the Design and Evaluation of Environments

1. List multiple human factors methodologies relevant to planning for the evaluation of a process
2. Differentiate between design-focused and human-focused solutions to process and implantation problems
3. Consider the interaction of system elements within a complex environment and the impact those interactions have on process outcomes
4. Discuss various observational methods and how they can be used to study and optimize processes

Lunch Break

Module 7 – 12:30 p.m. to 4 p.m.

Human Factors in Process Evaluation

1. Define the resource requirements for mock-up and post-occupancy evaluations of built environments
2. Describe how observed behaviours and user feedback can be used for the assessment of built environments
3. Outline and discuss how to translate evaluation findings into recommendations to improve the effectiveness of built environments

