Human Factors in Healthcare Course Program 2024

Calgary

Day 1 - January 29, 2024 Dav 2 - January 30, 2024 Day 3 - January 31, 2024 8:30 a.m. to 4 p.m.

Edmonton

Day 1 - February 5, 2024 Day 2 - February 6, 2024 Day 3 - February 7, 2024 8:30 a.m. to 4 p.m.

DAY ONE

08:30 -Module 1: Introduction to Human Factors in Healthcare

10:00

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 selfdirected learning on the subject of Human Factors in healthcare

Module 2: Human Error and Cognitive Biases 10:00 -

12:00

16:00

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

Lunch Break

12:30 -

Module 3: Human Factors in the Design and Evaluation of Icons, Labels, and Forms

- Define principles commonly utilized in a Heuristic Evaluation
- Evaluate the design of generic labels, forms, and icons in health care documentation applying knowledge of task analysis and heuristic evaluation
- Define objective performance metrics to evaluate the effectiveness of labels, forms, and icons
- 4. Discuss the potential risks of poorly designed labels, forms, and icons







DAY TWO

08:30 -Module 4: Human Factors in the Design and Evaluation 12:00 of Digital Interfaces

- Define principles commonly utilized during a Heuristic Evaluation
- Develop a Usability Test plan for an assessment of digital interfaces
- Define reporting requirements for the evaluation of a digital user interface
- 4. Calculate aggregate performance metrics from usability test data

Lunch Break

12:30 -**Module 5: Human Factors in Procurement**

- Describe the steps to conduct a Task Analysis for a 'simple' system
- 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
- Describe how Human Factors evaluation methodologies can be incorporated into procurement activities

DAY THREE

08:30 -Module 6: Human Factors in Process Evaluation

12:00

16:00

- 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

12:30 -Module 7: Human Factors in the Design and Evaluation 16:00 of Environments

- 1. Define the resource requirements for mock-up and post-occupancy evaluations of built environments
- 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