

Digital Health Software Development Lifecycle and Change Management

Course Purpose

This course is designed to build or enhance abilities to contribute to software development projects. While much of the material applies across domains, the course will highlight specific health information systems (HIS) considerations. It is helpful for both those who are new to systems development projects as well as an opportunity to refresh or mature skills for project processes for HIS roles.

Learners will have the opportunity to think about how the SDLC can be applied to in a process that supports their goals for building and maintaining systems.



Duration:
4.5 hours



Language:
English



Launch date:
October 2024



Recommended experience:

- Basic Computer Literacy
- Good Oral and Written Communication Skills
- Problem solving skills



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Learning Objectives



At the end of the training, it is expected that the trainees will be able to:

- Articulate the purpose of the Systems Development Lifecycle
- List techniques for gathering, documenting, and analyzing user requirements effectively
- Understand the importance of stakeholder collaboration and communication in requirements elicitation
- List key design principles
- Describe practices for writing clean, modular, and maintainable code
- Have an awareness of the different testing methodologies and techniques to ensure software quality: Testing, User acceptance testing, production environment, and feedback process
- Identify deployment strategies and techniques for releasing software systems into production environments
- Identify the importance of ongoing maintenance, updates, and support for software systems post-deployment
- Understand change management principles and practices, with a focus on the Systems Development LifeCycle (SDLC) context.

Target Profiles

How this course will help each profile?



HIS Leadership	Project Manager	Trainer / Support Analyst, Developer / Systems Engineer, Business / Systems Analysts
This course can be used to help HIS leaders understand the systems development life cycle and basic processes used by systems development teams. It may be used to help understand staffing needs and functions that their HIS team will need to support.	The project manager can use this course to help understand the SDLC lifecycle and how they can help ensure that project needs are met and manage schedules and resources.	Understand the systems development lifecycle and key activities in each part of the project. This course can help ensure that each member of the systems development team understands how their role fits into the lifecycle and how the other roles contribute to the project as a whole.