Business Process Workflow Modeling Training

Tutorial 1, Introduction and Foundations of Clinical Workflow Modeling

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Version: 001

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About the Authors & Acknowledgements

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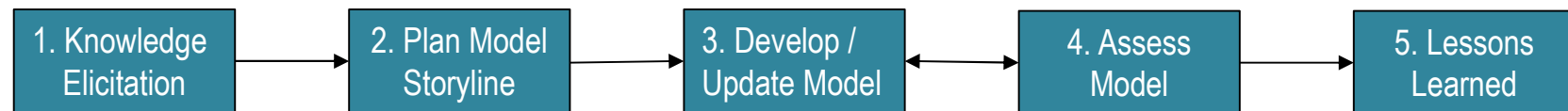
Introduction to all modules in course

- This training is adaptive, self-paced, and includes both didactic and hands-on tutorials. More specifically this includes:
  - Short video tutorials
  - Handouts
  - Slide decks
  - Vignettes/examples for practice
  - Quizzes
  - Office Hours

Course Objectives

- Learn about Business Process Modeling (BPM) to be able to build, read, and interpret clinical workflow and information flow models.

- Obtain background on BPM (This module.)

- Learn to conduct and document interviews and focus groups to elicit clinical knowledge.

- Learn to produce models:
  - Using tools: MS Office and Visio
  - Using notations including Business Process Modeling Notation (BPMN), Decision Model and Notation (DMN), Case Management Modeling and Notation (CMMN), and Unified Modeling Language (UML)
  - Basic and advanced models

- Learn to analyze models to determine benefits of procedural and technology changes, and to uncover constraints to system efficiency and work-arounds.

Modeling Methodology

- Modeling Workflow Use Cases, Scenario and Health Practice Patterns.

| 1. Knowledge Elicitation | → | 2. Plan Model Storyline | → | 3. Develop / Update Model | ↔ | 4. Assess Model | → | 5. Lessons Learned |

- A <u>Scenario</u> is a detailed outline or synopsis for a specific sequence of events.
- A <u>Use Case</u> is composed of multiple scenarios.

Modeling Tools

- Modeling notations are used to visually tell a story.
  - Visual process models: workflows performed by multiple people using technology for information work and/or physical activities.
  - Select the notation and shapes that works best for you.

- You can construct UML, BPMN, CMMN, DMN drawing shapes, using standard Windows or Office platforms.
  - Group constructed shapes and use them as a template.
  - Create a Shape Legend to avoid ambiguity.

- Tools include: MS Visio, Trisotech, Sparx EA, IBM RSA, Magic Draw, etc.
  - Features include database technology to ensure consistent spelling etc., cloud capability

END OF TUTORIAL

References

OMG BPMN, CMMN and DMN overview video:
https://www.youtube.com/watch?v=N3htv1tjmuc

OMG UML Overview Video:
https://www.youtube.com/watch?v=vAHHdnIV8rU

OMG UML for Information Models:
https://www.youtube.com/watch?v=HqKZOgvCeUo