



U.S. Department of
Veterans Affairs

VISIONARY
CONSULTING PARTNERS
PROMOTING OPTIMAL HEALTH, TRANSFORMING LIVES

Online Modeling Training Storyboard Summary (Task 05)

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Format: The online modeling training package will include short video tutorials, step-by-step/how to guides and quick start handouts, slide decks, and vignettes/examples that will allow trainees to practice modeling skills.

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
- 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) and others
 - Basic and advanced models
- Learn to analyze models to determine benefits of procedural and technology changes, and to uncover constraints to system efficiency and workarounds

Content:

1) Short video tutorials w/slide decks include:

- **Tutorial 1: Introduction and Foundations of Clinical Workflow Modeling**
 - Objective
 - Obtain background on Business Process Modeling (BPM)
- **Tutorial 2: Notation Styles and Standards**
 - Objective
 - To understand the various modeling styles, notations including Business Process Modeling Notation (BPMN), Decision Model and Notation (DMN), Case Management Modeling and Notation (CMMN), and Unified Modeling Language (UML)
 - Learn to differentiate between these modeling styles, including when and how to use each
- **Tutorial 3: Basic Models in DMN, CMMN, UML**
 - Objective
 - Learn the CMMN, DMN, and UML notation standards and better understand their application
- **Tutorial 4: MS Office Buttonology**
 - Objective
 - Learn to produce simple models using Microsoft PowerPoint
 - This will include how to use PPT and its stencils
 - Trainees will practice building a basic encounter in PPT with the instructor and then participate in a hands-on activity based on the Telestroke Program video and possibly other sample models



- A PowerPoint stencil file will be provided for trainees
- **Tutorial 5: MS Visio Buttonology**
 - Objective
 - Learn to produce simple models in Microsoft Visio
 - This will include how to use Visio and its stencils
 - Trainees will practice building a basic encounter in Visio with the instructor and then participate in a hands-on activity based on the Telestroke Program video and possibly other sample models
- **Tutorial 6: Eliciting Data for the Creation of Models (Knowledge Elicitation)**
 - Objective
 - Learn the definitions and foundational concepts of methods for eliciting knowledge on clinical workflows, such as observations, interviews, focus groups, walkthroughs/tabletops, and simulations
 - Guidelines for selecting methodologies
 - Best practices for each
 - Using collected data to draft initial model
- **Tutorial 7: Drafting a Model**
 - Objective
 - Learn how to use information obtained during knowledge elicitation or from other sources to create initial models
 - Includes selecting the appropriate notation standard, sketching high level models
- **Tutorial 8: Validating a Model**
 - Objective
 - Understand the importance of validating your model
 - Learn the methods used for validating models based on resources available
- **Tutorial 9: Analyzing Models**
 - Objective
 - Learn to read and interpret workflow models to:
 - Understand the workflow of a process you participate in or manage
 - Identify areas for improvement in current practice
 - Assess benefits of proposed or pending technology or procedural changes
 - We will use two Telestroke models (Pharmacist at bedside & Pharmacist in pharmacy) to depict how models can be compared. These will be referred to throughout the module
 - We will also address analyzing timing, errors, and resource usage
- **Tutorial 10: Advancing Your Modeling Skills**
 - Objective
 - Starting with one or more text narrative(s) of clinical vignette(s), learn to build one or more workflow models from “scratch”



2) Supplemental Materials

- Handouts (downloadable)
 - Practice Vignettes
 - Persistent Cough
 - Diabetes #1
 - Diabetes #2
 - Severe Headache
 - Back Pain
 - Potential new vignettes which may include:
 - Transitioning between specialties, ex) Primary care to/from Mental health
 - Open access/Walk-ins
- Educational Supplements
 - Basic Models
 - BPMN Quick Start Guide
 - BPMN Shapes
 - CMMN/DMN/UML Overview
 - Quick Start Guides (areas to be identified)
- Tests and Quizzes
- Additional Materials
 - PowerPoint stencil file