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Business Process Modelling with BPMN

Learn via: **Classroom**

Duration: **2 Day**

Overview

Most business and technical stakeholders are vividly aware that in order to come up with good solutions, we need to be able to describe, understand, and communicate our organizations' business processes. Yet, despite decades of flowcharting-talk and uncounted number of Visio diagrams, we are still struggling with this challenge. Without doubt, this is a major contributor to projects that fail to deliver (e.g., cancelled, over-scheduled, or over-budgeted products of poor quality or that have only a fraction of the required functionality or functionality that nobody uses).

In the last couple of years, more and more organizations have adopted a new standard: Business Process Model and Notation (BPMN). By now, a de facto standard for business process modeling, BPMN enables bridging the communication gap between business and technical people by providing an effective, efficient, and flexible way to capture, model, analyze, and design business processes in a way that is easily understood by all parties.

Prerequisites

There are no prerequisites for this course.

Who Should Attend

- Business analysts
- Process analysts
- Process owners
- Process engineers
- Business customers/end users
- Product owners, project managers, end users
- Testers
- Anybody with a desire to understand, capture, analyze, design, and/or optimize processes

What You Will Learn

- Bridge the communication gap between business and IT, by modeling processes that can be easily understood and communicated by all stakeholders
- Enable process collaboration and accountability, by modeling processes at levels of abstraction/details most appropriate to each stakeholder's perspective
- Create high-level (whole-picture) models that describe an organization's end-to-end processes
- Design and optimize processes, by progressively elaborating high-level models (descriptive level) into hierarchical and more detailed process models (analytical level)
- Capture/design complex process-events interactions
- Capture/design processes that separate and integrate process activities and complex business rule definitions
- Streamline process and requirements documentation by using the same notation and syntax to capture processes at all stages of the SDLC
- Enhance knowledge management (creating, sharing, training, reuse, etc.) by eliminating the need to duplicate and/or translate process definitions
- Increase productivity by enabling process engineers to elaborate Analytical models into Executable models (rather than starting from scratch each time)
- Reduce analysis paralysis, by allowing teams and business/process analysts to focus on relevant aspects of the process (through hierarchical modeling and sub-process expansion, while maintaining overall process consistency/integrity)
- Enable scope management and prioritization, by allowing process models that are selectively elaborated (based on which aspects of the process are more important)
- Facilitate adoption/customization of BPM/BPMN/BPMS tools
- Enable process simulations to validate and optimize business processes (e.g., process and cycle times, costs, and resource utilization)

Training Outline

1. Introduction and Core Concepts

- Models and Modeling Goals
- Processes/Process Types
- Process Modeling
- BPMN in Context: BPM and BPMS
- Historical Background
- Comparison with Alternative Modeling Methods

2. BPMN Notation and Element Types

- BPMN Standard: Notation/Symbols, Syntax, and Semantics
- Modeling Levels/Palettes: Descriptive, Analytical, Execution
- Work-Performing Elements: Processes, Activities (Tasks/Sub-Tasks)
- Work-Routing Elements: Sequence and Message Flow, Gateways
- Work-Partitioning Elements: Pools and Lanes
- Events
- Data Objects
- Artifacts

3. Descriptive Models (Level 1 Palette)

- Purpose and Target Audience
- Core Elements
- Method and Style
- Examples

4. Analytical Models (Level 2 Palette)

- Purpose and Target Audience
- Additional Elements
- Method and Style
- Examples

5. BPMN Practices

- Common Pitfalls and How to Avoid Them
- Best Practices

6. Process Analysis and Design Using BPMN

- BPMN Syntax Validation
- BPMN Method and Style Validation
- Tokens and Workflow Patterns
- Optimizing Processes: Analysis and Design

7. Advanced Topics

- Process Simulations
- BPMN Processes and Business Rules/Decisions
- Event Sub-Processes
- Choreography Diagrams
- Executable Models

8. BPM/BPMN Career and Resources

- IIBA and Process Modeling
- OMG Certified Expert in BPM (OCEB)
- Other Certifications
- Resources

9. BPMN Tools

- Whiteboards and Sticky-Notes,
- Diagramming Tools vs. Modeling Tools
- BPMN vs. BPMS
- Commercial and Open-Source Tools

10. Case Study and Hands-On Exercises