Essential BPMN Applied™ Workshop

— MagicDraw™ edition —

Accelerate your BPMN project with this intense, interactive workshop that emphasizes pragmatic modeling principles and techniques, and shows how to apply them using MagicDraw, an award-winning modeling tool.

As businesses expand and compete in the global information age, there are continuous pressures for business analysts and managers to increase the productivity and efficiency of their business processes. **One of the proven means to improve business processes is to model them**, so that expert business analysts can specify both the current state of their enterprise as well as a desired future state. **By comparing and contrasting high-fidelity models of "as is" and "to be" enterprises, business analysts can identify specific process transformations** that can result in quantifiable improvements to their businesses. BPMN (Business Process Modeling Notation) has emerged as the industry standard visual notation for specifying business processes that has been adopted by the Object Management Group.

This introductory BPMN workshop **provides students with a solid foundation for applying business process modeling principles and best practices with BPMN**. The workshop teaches students **how to solve practical business problems using BPMN Business Process Diagrams (BPDs)**. It also provides students with the option of learning how BPMN BPDs can be synergistically integrated with UML Use Cases for specifying functional requirements and UML Class diagrams for specifying data models. Learning modules are punctuated with frequent Q&A sessions and hands-on practice exercises. This workshop edition is customized to integrate basic modeling tool training with MagicDraw, an award-winning modeling tool.

WHY TRAIN WITH US? – PIVOTPOINT TRAINING ADVANTAGES

- PivotPoint workshops are **authored and taught by Model-Based Engineering experts** with 10+ years practical application experience.
- PivotPoint workshops **are intense (high Instructor/Student ratio) and pragmatic—punctuated with frequent Q&A sessions and hands-on practice exercises**.
- PivotPoint workshops are **based on proven tool-independent principles and techniques**, so you can learn a leading modeling language or architecture framework with/without a modeling tool. (For a list of workshops customized for popular visual modeling tools see the *Training* page on the PivotPoint web.)
- PivotPoint workshops are **modular and can be customized to meet your team and project needs**. To begin with, you can pick-and-choose your modeling language, and then select from modeling tool and architecture framework training options.
- PivotPoint workshops **offer flexible choices of venues (onsite, offsite, webconference) and durations (#days)**.

For more details about the advantages of PivotPoint's Model-Based Engineering training check out the "Why Train with Us?" page on the PivotPoint web. But don't just take our word for it; you should also check out the Client Testimonials page on our web.

Workshop **learning objectives, prerequisites, syllabus, and logistical information are described below**.

WHAT WILL YOU LEARN?

- What is BPMN and why do we model business processes?
- BPMN's basic and advanced constructs for specifying processes and artifacts
- How BPMN can model large, complex business processes
- Practical guidelines for specifying correct, complete, clear, concise, and consistent models
- Verification & Validation (V&V) techniques
- How BPMN Business Process Diagrams can be integrated with UML Use Case and Class diagrams (optional)
- How you can customize BPMN for application domains, such as financial, healthcare, communications, and manufacturing
- How to select BPMN tools and methods
- How to draw and execute models using a selected BPMN tool: MagicDraw
- How to learn more about BPMN and business process modeling

WHO SHOULD PARTICIPATE?

Business analysts, software architects/engineers/developers, systems engineers, project managers, and others who want to learn how the BPMN language can improve how they analyze, implement, and manage business processes will benefit from this workshop.

PREREQUISITES: Experience in analyzing, implementing, or managing large, complex business processes. Experience using one or more structured analysis/design, object or component methods is desirable.

WORKSHOP AUTHOR & CHIEF INSTRUCTOR

Cris Kobryn is the CEO and Founder of PivotPoint Technology Corporation, a company that specializes in Model-Based Engineering Solutions™ for tough business and engineering problems. He is an internationally recognized expert in visual modeling and Model-Based Engineering, and has successfully applied these technologies to diverse industries ranging from aerospace-defense and communications to financial services and manufacturing. Cris chaired large international teams of vendors and users to specify the Unified Modeling Language (UML) 1.x and 2.0 standards for software engineering, and the Systems Modeling Language (SysML) 1.0 standard or systems engineering. In recognition of Cris's contributions to the UML the Object Management Group (OMG) presented him with its Distinguished Service Award, and in acknowledgement of his contributions to the SysML the International Council on Systems Engineering (INCOSE) presented him with its Outstanding Service Award.

WORKSHOP SYLLABUS: The workshop syllabus, in a menu form that can be customized to meet your team/project needs, is described at the end of this document. NOTE: This workshop description and syllabus are subject to revision. Check the *Training* page on the PivotPoint web for the most recent update.

FLEXIBLE VENUES: All of our workshops are available onsite (at a Client training facility), offsite (at a PivotPoint training facility), and via webconference.

FOLLOW-UP CONSULTING/MENTORING SERVICES: All of our workshops can be followed up with consulting/mentoring services that will keep your Model-Based Engineering project on track. Please check out the Consulting services page on the PivotPoint web, or contact us to discuss details.

SCHEDULING AND COST: Workshops must be reserved in advance by Purchase Order or prepayment. We generally require at least 4 weeks lead time for scheduling workshops, but longer lead time is desirable to reserve your preferred training dates. Workshop cost depends upon workshop duration (number of days), venue choice (onsite, offsite, webconference), and number of students.

FURTHER INFORMATION & PRICE QUOTES: Please **visit our web site at www.PTCorp.com, email us at workshops@PTCorp.com, or call us at +1-760-201-0200** to discuss workshop details and receive a price quote.

WORKSHOP MENU

All PivotPoint workshops include both structured presentations and interactive hands-on work sessions to reinforce learning principles and best practices. In addition, all workshops can be customized to address special project or team requirements.

- **3 day workshop** includes: *BPMN – Basic* and *BPMN – Intermediate*, and one of the following: *BPMN – Advanced* or *BPMN – Basic Modeling Tool*.
- **4 day workshop** includes: *BPMN – Basic* and *BPMN – Intermediate*, and two of the following learning modules: *BPMN – Advanced, BPMN – Basic Modeling Tool*, *BPMN – Project Practicum*.
- **5 day workshop** includes: BPMN – Basic, BPMN – Intermediate, BPMN – Advanced, BPMN – Basic Modeling Tool, and BPMN – Project Practicum.

BPMN – BASIC

[Module# LB101]

Introduction

- Model-Based Engineering & Business Process Modeling
- Basic Concepts
- Principles and best practices

BPMN Quick Tour

- Language overview
- Diagram walkthrough

Diagram Techniques

- Business Process Diagrams (Basic BPMN Modeling Elements)
- optional: Use Case diagrams for functional requirements (UML notation)

Goals

- Learn about the advantages of a Model-Based Engineering approach to Business Process Modeling
- Understand the basic concepts and principles for modeling complex processes with BPMN
- Learn how to apply basic BPMN diagram techniques
- Understand how to specify a correct, complete, clear, concise, and consistent model

BPMN - INTERMEDIATE

[Module# LB102]

Topics

- Extended BPMN modeling elements
- Process levels
- Exceptions and transactions
- Model verification & validation
- Model integrity guidelines
- Model metrics
- Specifying BPMN Data Objects with UML Class diagrams (optional)

Diagram Techniques

- Business Process Diagrams (Extended BPMN Modeling Elements)
- optional: Class diagrams for data objects (UML notation)

Goals

- Learn how to apply intermediate-level BPMN techniques
- Understand how to make your models more scalable
- Learn how to improve the integrity and quality of your models
- Understand how to verify and validate your models

BPMN – ADVANCED

[Module# LB103]

BPMN Review

[If BPMN refresher required]

Topics

- Recursive design
- Advanced behavioral modeling techniques
- Business process patterns
- Model simulation and execution
- Integrating BPMN and UML models
- Customizing BPMN for domains and platforms
- Model-based process selection and customization
- Modeling tool selection and customization

Goals

- Learn advanced BPMN modeling techniques to refine business process models
- Understand how to define and apply business process patterns for reuse
- Learn how models can drive simulations and generate executable code
- Understand how to customize BPMN for your work domain and target platform
- Learn how to select and customize model-based processes and tools

BPMN – BASIC MODELING TOOL: MAGICDRAW

[Module# LB111-MD]

Topics

- Projects and diagrams
- Generating documentation
- Importing/exporting models
- Requirements verification
- Model validation and metrics
- Model simulation/execution

Diagram Techniques

- Business Process Diagrams (BPDs)
- optional (if BPMN tool supports) UML diagrams: Use Case and Class diagrams

Goals

- Gain familiarity with the user interface and basic features of selected BPMN modeling tool
- Learn how to model Business Process Diagrams using selected modeling tool
- Understand the strengths and weaknesses of selected modeling tool
- Assess BPMN standards compliance for selected modeling tool

BPMN – PROJECT PRACTICUM

[Workshop# LB121]

The project practicum provides an opportunity to apply BPMN modeling principles and best practices to solve project modeling problems in a creative and supervised workshop environment. The practicum can be used to facilitate:

- BPMN model peer reviews
- BPMN model revisions and extreme makeovers

Students can identify project modeling problems in advance, or Instructor will work with students to identify them.

Goals

- Identify the BPMN modeling principles and best practices that are most important to your team and your project
- Apply BPMN modeling techniques to project problems that you choose