

# Business Process Modeling Compressed™ with Enterprise Architect™ Workshop



**Accelerate your Business Process Modeling project with this intense, interactive workshop that pragmatic modeling principles and techniques, and shows how to practice them with Enterprise Architect, an award winning modeling tool.**

As businesses expand and compete in the global information age, there are continuous pressures for business analysts 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 the “as is” and “to be” enterprises, business analysts can identify specific process transformations** that can result in quantifiable improvements to their businesses.

**This interactive modeling workshop explains the basic principles and best practices for modeling business processes with BPMN and UML 2.** BPMN (Business Process Modeling Notation) is emerging as the de facto standard visual modeling notation for specifying business processes. When used correctly, BPMN complements UML 2, the industry standard modeling language for specifying software-intensive systems. This hands-on workshop shows you how to construct a well-formed business model with BPMN and UML 2, so that your business analysts can efficiently communicate their business process requirements to the software developers who must implement them.

## THE PIVOTPOINT TRAINING ADVANTAGE

- **Authored and taught by experts.** All workshops are authored by PivotPoint's founder, Cris Kobryn, an internationally recognized expert in visual modeling languages and model-driven development technologies. (Cris chaired the international standardization teams for UML 1.1, UML 2.0 and SysML 1.0.) In addition, all PivotPoint instructors have 10+ years experience working with Model-Driven Development technologies.
- **Small, intense and interactive.** We limit workshop sizes, usually to a maximum of 12 participants. This ensures that participants get the individual attention that they need to learn quickly. Also, our workshops are intense and highly interactive with frequent work sessions, so you will learn from other participants as well as your instructor.
- **Proven principles and best practices.** Our workshops emphasize proven modeling principles and best practices that will work with all modeling tools that comply with the relevant standards. If you have already chosen a modeling tool, we can integrate optional tool training in your workshop. If you have not yet selected a modeling tool, we can help you select one that best meets your project and team needs.
- **Emphasis on pragmatic problem solving.** Our workshops emphasize the use of modeling technologies to solve tough, practical problems such as those you encounter on your day job. The bigger and more difficult the problem you choose for practice sessions, the more interesting the workshop will be for the participants and the instructor.
- **Flexible choice of venue.** Our workshops are available onsite at Client training facilities, which allow us to customize workshops to meet Client project or team needs, or at PivotPoint training facilities.

## WHAT WILL YOU LEARN?

The following are the key learning objectives of the workshop:

- What is Business Process Modeling (BPM) and what are its benefits?
- BPMN's basic and advanced constructs for specifying processes and artifacts
- UML's basic constructs for specifying requirements, processes, domain object models, and logical data models
- How BPMN/UML can model large, complex business processes
- Practical guidelines for specifying correct, clear, concise and consistent models
- How you can customize BPML/UML for application domains, such as financial, healthcare, communications, and manufacturing
- How to select BPM tools and methods
- How to draw and execute models using a selected BPM tool [optional]
- How to learn more about Business Process Modeling

## WHO SHOULD PARTICIPATE?

Business analysts, software architects/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 & PRIMARY INSTRUCTOR



**Cris Kobryn** is the CEO and Founder of PivotPoint Technology Corporation, a company that specializes in Model-Driven Engineering Solutions™ for tough business and engineering problems. He is an internationally recognized expert in visual modeling and model-driven development, and has successfully applied these technologies to diverse industries ranging from aerospace-defense and telecom to financial services and manufacturing. Cris has global experience leading high-performance software development teams, and has architected custom applications and commercial products. He formerly held senior technical positions at Telelogic, EDS, MCI Systemhouse, Inference Corporation, and SAIC.

Cris chaired large international teams of vendors and users to specify the Unified Modeling Language (UML) 1.1 and 2.0 standards for software engineering, and the Systems Modeling Language (SysML) for 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. Cris is a contributing editor for *Software and Systems Modeling* journal, and a member of IEEE, INCOSE, ACM, and AAAI.

## WORKSHOP SYLLABUS

The workshop syllabus, in a menu form that can be customized to meet your needs, is described at the end of this handout. NOTE: This workshop description and syllabus are subject to revision. Check [www.PTCorp.com/training.htm](http://www.PTCorp.com/training.htm) for updates.

## WORKSHOP SIZE

The number of workshop participants is restricted to maximize interactions with the instructor, especially during modeling lab sessions. Most workshops are restricted to 12 or fewer participants. Exceptions must be approved by the instructor.

## COST, AVAILABILITY, AND FURTHER INFORMATION

This workshop is available at client sites, PivotPoint instructional facilities, or by web conferencing. Costs depend upon your choice of venue, duration, and the number of participants. For further information regarding the contents, availability, and cost of the workshop please email [workshops@PTCorp.com](mailto:workshops@PTCorp.com) or call +1-760-728-9747.

# WORKSHOP MENU

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

- **3 day workshops**
  - Tool independent training with both BPMN and UML: *BPM – Basic*, *BPM – Intermediate (BPMN)*, and *BPM – Intermediate (UML)*.
  - BPMN emphasis with tool training: *BPM – Basic*, *BPM – Intermediate (BPMN)*, and *BPM Tool Training*.
  - UML emphasis with tool training: *BPM – Basic*, *BPM – Intermediate (UML)*, and *BPM – Basic Modeling Tool*.
- **4 day workshop** includes: *BPM – Basic*, *BPM – Intermediate (BPMN)*, and *BPM – Intermediate (UML)*, and *BPM – Basic Modeling Tool*.
- **5 day workshop** includes: *BPM – Basic*, *BPM – Intermediate (BPMN)*, and *BPM – Intermediate (UML)*, *BPM – Basic Modeling Tool*, and *BPM – Advanced Modeling Tool/Project Practicum*.

<p style="text-align: center;"><b>BUSINESS PROCESS MODELING - BASIC</b> [Module# BP101]</p> <p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Model-Driven Engineering (MDE)</li> <li>• Business Process Modeling (BPM)</li> <li>• Basic Concepts</li> <li>• Principles and best practices</li> </ul> <p><b>BPMN Quick Tour</b></p> <ul style="list-style-type: none"> <li>• BPMN as a BPM language</li> <li>• Business Process Diagrams (BPDs)</li> </ul> <p><b>UML Quick Tour</b></p> <ul style="list-style-type: none"> <li>• UML as a BPM language</li> <li>• Essential diagrams for BPM             <ul style="list-style-type: none"> <li>○ Use Case diagrams</li> <li>○ Activity diagrams</li> <li>○ Class diagrams</li> </ul> </li> </ul>	<p><b>Goals</b></p> <ul style="list-style-type: none"> <li>• Understand the advantages of a Model-Driven Engineering approach to Business Process Modeling</li> <li>• Comprehend the basic differences among models, processes, frameworks and tools</li> <li>• Learn the basic concepts and principles for modeling business processes with BPMN and UML</li> <li>• Understand how to specify a correct, complete, concise, and consistent business process model</li> </ul>
<p style="text-align: center;"><b>BUSINESS PROCESS MODELING – INTERMEDIATE (BPMN)</b> [Module# BP102-B]</p> <p><i>Prerequisites: BPM – Basic or equivalent.</i></p> <p><b>Topics</b></p> <ul style="list-style-type: none"> <li>• Extended BPMN elements</li> <li>• Process levels</li> <li>• Exceptions and transactions</li> <li>• Verification &amp; Validation techniques</li> <li>• Executable models</li> <li>• Using BPMN with UML</li> </ul> <p><b>Diagram Techniques</b></p> <ul style="list-style-type: none"> <li>• Business Process Diagrams (BPDs)</li> </ul>	<p><b>Goals</b></p> <ul style="list-style-type: none"> <li>• Learn the advanced constructs of BPMN</li> <li>• Understand how to make your Business Process Models more scaleable</li> <li>• Learn how to improve the integrity and quality of your Business Process Models</li> <li>• Understand how to use BPMN and UML in a complementary manner</li> </ul>

<p><b>BUSINESS PROCESS MODELING – INTERMEDIATE (UML)</b>  [Module# BP102-U]  <i>Prerequisites: BPM - Basic or equivalent.</i></p> <p><b>Topics</b></p> <ul style="list-style-type: none"> <li>Refining and extending business models with other UML diagram techniques</li> <li>Advanced Activity diagrams</li> <li>Interface-based design and Service-Oriented Architectures (SOA)</li> <li>Verification &amp; Validation techniques</li> <li>UML profiles for business process modeling</li> <li>Using UML with BPMN</li> </ul> <p><b>Diagram Techniques</b></p> <ul style="list-style-type: none"> <li>Activity diagrams</li> <li>Sequence diagrams</li> <li>State Machine diagrams</li> <li>Composite Structure diagrams</li> <li>Component diagrams</li> <li>Deployment diagrams</li> </ul>	<p><b>Goals</b></p> <ul style="list-style-type: none"> <li>Learn advanced Activity diagram techniques for modeling business processes</li> <li>Understand how other UML diagram techniques complement Activity diagrams and Business Process Diagrams</li> <li>Learn how your Business Process Model can drive a Service-Oriented Architecture</li> <li>Understand how to make your Business Process Models more scalable</li> <li>Learn how to improve the integrity and quality of your Business Process Models</li> <li>Understand how to use BPMN and UML in a complementary manner</li> </ul>
<p><b>BUSINESS PROCESS MODELING – BASIC MODELING TOOL (BPMN/UML): ENTERPRISE ARCHITECT™</b>  [Module# BP111]  <i>Prerequisites: BPM – Intermediate (BPMN), BPM – Intermediate (UML), or equivalent.</i></p> <p><i>[We support several leading BPMN/UML2 modeling tools. See <a href="http://www.ptcorp.com/training.htm">www.ptcorp.com/training.htm</a> for modeling tools currently supported. Client can select or we will recommend one.]</i></p> <p><b>Selected Modeling Tool Tour</b></p> <ul style="list-style-type: none"> <li>Projects and diagrams</li> <li>Generating documentation</li> <li>Roundtrip engineering</li> <li>Importing/exporting models</li> <li>Model validation and metrics</li> <li>Working with profiles: BPMN</li> <li>Working with patterns (optional)</li> </ul> <p><b>BPMN Diagram Techniques</b>  [If Module# BPM102B selected]</p> <ul style="list-style-type: none"> <li>Business Process Diagrams (BPDs)</li> </ul> <p><b>UML Diagram Techniques</b>  [If Module# BPM102U selected]</p> <ul style="list-style-type: none"> <li>Activity diagrams</li> <li>Use Case diagrams</li> <li>Class diagrams</li> <li>Others diagram techniques (optional)</li> </ul>	<p><b>Goals</b></p> <ul style="list-style-type: none"> <li>Gain familiarity with the user interface and basic features of your selected BPMN/UML modeling tool</li> <li>Learn how to model most common BPMN/UML diagram types using your selected modeling tool</li> <li>Understand the strengths and weaknesses of a selected modeling tool</li> <li>Assess BPMN/UML standards compliance for your selected modeling tool</li> </ul>

## BUSINESS PROCESS MODELING –

### ADVANCED MODELING TOOL/PROJECT PRACTICUM

[Module# BP112]

*Prerequisites: BPM – Basic, and one or more additional BPM modules.*

*[The optional practicum portion of the workshop provides an opportunity for those who want to undertake realistic project work in a creative and supervised workshop environment. Participants can identify a challenging problem in advance, or Instructor will work with participants to identify a challenging problem.]*

#### Topics

- Specifying business requirements
- Specifying business processes
- Specifying domain object models
- Advanced modeling tool techniques (optional)

#### Modeling Techniques

- BPMN business process modeling techniques  
[see Module# BP102-B]
- UML business process modeling techniques [see Module# BP102-U]

#### Putting It All Together

- Business process model peer review
- Next steps

#### Goals

- Identify the Business Process Modeling principles and best practices that are most important to your team and your project
- Apply basic and advanced Business Process Modeling techniques to a practical project problem that you choose