

BPMN in Context

BPMN is a product of the Object Management Group, which has been an international, open membership, not-for-profit computer standards consortium since 1989 and whose board of directors includes representation from almost all organizations that shape enterprise and internet computing today.

BPMN stands for Business Process Modelling Notation and it provides a notation that is readily understandable by all stakeholders of the business, including the business analysts who create the initial drafts of the processes, the developers responsible for implementing the technology that will perform the processes and the business itself, which will manage and monitor the processes.

In addition to how expressive BPMN is, a key to its value is that with a suitable tool, it can be used to generate executable BPEL, thus enabling BPMN to create a standardized bridge between the business process design and the process implementation using a Service Oriented Architecture.

BPMN defines a Business Process Diagram (BPD), which is based on a flowcharting technique similar in nature to the UML Activity Diagram, but far more expressive.

Overview

This hands-on course covers Business Process Modelling using the modelling notation BPMN.

The course has a high proportion of practical exercises in which the attendees use the knowledge they have gleaned to analyse, document and refine the processes of a complex business. The practical work will make up at least 50% of the course. This will give the delegates confidence in applying the strong theoretical knowledge gained throughout the course directly to their project work.

Objectives

By the end of this course the attendees will be able to use the full range of BPMN notation to document businesses processes. This approach will be equally suitable in applying the modelling techniques essential for gathering the requirements and procedures of complex engineering systems as well as applying the notation to traditional business analysis.

The attendees will also have had experience in producing each of the five BPMN diagram types:

- The process map
- The process environment diagram
- The top level process diagram
- The lower level process diagrams
- The exception diagram

The course will also introduce the concepts of Service Oriented Architecture and show how the BPMN language can be used to capture business processes for the automatic generation of BPEL, which forms a cornerstone of the SOA platform.

Prerequisites

There are no prerequisites to this course



BPMN

Designed and Managed by
the Object Management
Group

Detailed Course Description

System Engineering and IT and the case for BPMN

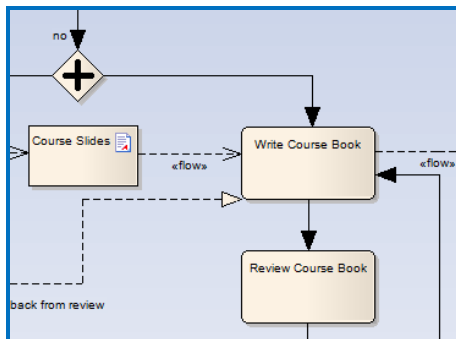
Identify the need to model behaviour in business and engineering systems
Look at BPMN's relationship with SysML and UML
Look at what BPMN and SOA can offer to software development

Business processes and IT support

Identify the aim of a business model
Describe the basic concepts of a business process
Relate the business process to IT
Identify the inherent problems of traditional IT support
See that the motivation behind SOA and BPMN is to address these problems

An Introduction to Service Oriented Architecture

Look at SOA as a new and valuable architecture to provide software support for business processes
BPEL generation from BPMN to execute the business process
Web Services
The Enterprise Service Bus
A Registry or Repository... a single point of reference for services
The SOA rules engine
Business Activity Monitoring



Business Process Modelling

The BPMN has a large vocabulary to provide great flexibility in how we model process

BPMN – the diagrams

The four categories of BPMN entities

The BPMN diagrams:

- The process map
- The process environment diagram
- The top level process diagram
- The lower level process diagrams
- The exception diagram

A general good practice approach to business modelling
Some of the pitfalls in business modelling
Process Implementation
Process Execution
Process Monitoring

BPMN – the notation

A through examination of:

- Flow objects
- Connecting Objects
- Swim Lanes
- Artefacts

BPMN – advanced notation

Activity tags
An in depth look at Events
BPMN Artefacts

Advanced Modelling Structures

Applying advanced BPMN notation to case studies
Advanced business analysis constructs, using BPMN