

Business process modeling in BPMN

Course code: GOC270

This course is designed for anyone who wants to learn how to create non-executable business process models in BPMN 2.0 (Business Process Model and Notation). Non-executable models are oriented towards the graphical description of a process and are primarily intended for process documentation, supporting communication between people and supporting process improvement. According to statistical surveys, the goal of 90% of BPMo (Business Process Modeling) projects is to create a non-executable model of business processes, these are so-called "paper projects". On the course you will learn to model in BPMN: the hierarchy of business processes, the flow of business process activities driven by events, the relationship of the process with the environment in which the process is implemented (the so-called process context). The aim of the course is to show and demonstrate in a practical exercise the best practices in modelling non-executable business processes in BPMN. The course will teach you 40% of the knowledge required to pass the OMG BPM (OCEB 2) Fundamental certification see <https://www.omg.org/certification/bpm/>.

What we will teach you:

- Create valid, error-free and readable process models in BPMN.
- Model the flow of process activities in BPMN.
- Model the relationships of processes with the environment in which the process is implemented. The environment of the process (called the process context) can consist of goals, metrics, organizational structure of the enterprise, supporting information systems, etc.
- Create a complete business process design.

For whom the course is intended:

- This course is intended for business process analysts, IS architects and anyone else who wants to use the business process models in BPMN 2.0 for their work.

Prerequisite:

- Knowledge of UML is an advantage, but not essential.

Teaching Methods:

- Expert lecture with practical demonstrations, computer exercises.

Study materials:

- Publication of the material covered in printed or online form, derived from a presentation created in MS PowerPoint.

Syllabus:

Introduction to Business Process Modeling.

- Definition of a business process
- Process model versus process instance
- B2B concept support in BPMN
- Process table

Basics of process modelling in BPMN

- Classification of processes according to the BPMN specification
- Top-level process
- Communication of top-level processes
- Events
- Activities
- Activity flow modelling
- Subprocesses
- Linking the process model in BPMN to the SW application model in UML Advanced business process modeling in BPMN

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Business process modeling in BPMN

- Methodology for business process modelling in BPMN
- Principles for creating valid and error-free models in BPMN
- Business Process Hierarchy Modeling
- Control-flow patterns
- Patterns for data flow modelling
- Solution archetypes for working with time
- Transaction modelling

Process context modelling

- Process context definition
- How to extend BPMN to better model process context
- Modeling the organizational structure of the enterprise in relation to processes (RASCI tables, SIPOC and other techniques)
- Modelling IS/ICT structure in relation to processes
- Modelling of project objectives
- Modelling of process performance measurement (KPI, KRI) Creation of a comprehensive project BPMo (Business Process Model)
- Overview of suitable modelling tools
- Examples of publicly published BPMo projects
- During the course, we will demonstrate the topics discussed on a step-by-step business process project in BPMN. Participants can influence the assignment and creation of the project.

We use Enterprise Architect as standard for creating the process model, but course participants can use other modeling tools of their choice.

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