

# 202 Business Data Analysis using Metastorm ProVision® 6



## Course Syllabus

<b>Important Facts:</b>	<p>2 days</p> <p>60% Lecture/Demonstration</p> <p>40% Hands-on Exercises</p>
<b>Target Audience:</b>	<p>Business Architects, Business Analysts, Project Managers, Six Sigma or Lean practitioners, Business staff involved in documenting, designing or improving business processes, business managers or process owners, and IT professionals responsible for working with management and business analysts to facilitate and automate business process improvements</p>
<b>Class Objectives:</b>	<p>This course builds on the concepts for our 101 Business Process Analysis course and focuses on business data/object requirements. After completion of this two-day class, the student will be able to</p> <ul style="list-style-type: none"><li>• Articulate the concepts used to define business object/data requirements</li><li>• Put into practice a set of modeling techniques for capturing, communicating and verifying business object/data requirements</li><li>• Relate object/data requirements to process requirements</li><li>• Identify the difference between business and system object/data requirements</li><li>• Identify the concepts of design transition</li><li>• Create and maintain typical models and object associations used to define business object/data requirements and relate them to process requirements:<ul style="list-style-type: none"><li>○ Business Class Model</li><li>○ Classes</li><li>○ Subtypes</li><li>○ Relationships<ul style="list-style-type: none"><li>▪ Associations</li><li>▪ Aggregations</li></ul></li><li>○ Attributes</li><li>○ Object Associations<ul style="list-style-type: none"><li>▪ Create/Read/Update/Delete (CRUD)</li></ul></li><li>○ Statechart Model</li></ul></li></ul>
<b>Prerequisites:</b>	<p>Our 101 Business Process Analysis course transitions smoothly to this course and is a prerequisite, so a solid grounding in Metastorm ProVision is assumed. Familiarity with data normalization is a plus.</p>

## Topic Outline:

### Day 1

- Introduction
  - Course Objectives, Content & Timing
- Business Architecture Deliverables
  - Robust Artifacts
  - Advantages
- Business Classes
  - Class vs. Object
  - Abstraction Levels
  - Recognition, Naming & Description
- Exercise: Business Classes
- Subtypes
  - Generalization/Specialization
  - Discriminators
  - Constraints
  - Property Inheritance
- Exercise: Subtypes
- Metastorm ProVision Subtype Modeler
  - Creating Subtype Models
  - Business Class Properties
  - Interpretation Options
- Exercise: Subtype Modeler
- States
  - Purpose
  - Transitions
  - States vs. Subtypes
  - Operations, Events & Guards
  - Business Object Lifecycles
- Exercise: Model Editing & Associations
- Metastorm ProVision Statechart Modeler
  - Creating Statechart Models
  - Component Properties
- Exercise: Statechart Modeler

### Day 2

- Associations
  - Purpose
  - Properties
  - Multiplicity
  - Aggregations
  - Recursive Associations
  - Association Business Classes
  - Macro Business Class Models
- Exercise: Associations
- Metastorm ProVision Associations
  - Creating Associations
  - Creating Aggregations
- Exercise: Modeling Associations
- Attributes
  - Purpose
  - Properties

- Types
  - Constraints
  - Correct Placement (Normalization)
- Exercise: Attributes
- Metastorm ProVision Attributes
  - Creating Attributes
  - Defining Properties
  - Defining Types
- Exercise: Modeling Attributes
- Business Class Operations
  - Purpose
  - Inherent Operations
  - Explicit Operations
  - Identifying Operations
    - Statechart Model
    - Workflow Model
- Mapping Business Classes to Processes
  - Create/Read/Update/Delete (CRUD) Grid
  - Implementation Association Grid
- Exercise: CRUD Association Grid
- Design Transition
  - Five Architectures
  - Architecture Deliverables
  - Mapping Analysis to Design
- Additional Support

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