

205 Discrete Event Simulation using Metastorm ProVision® 6.1



Course Syllabus

Important Facts:	2 days 35% Lecture/Demonstration 65% Hands-on Exercises/Questions
Target Audience:	Business Analysts, Business Architects, Six Sigma or Lean practitioners, and IT professionals responsible for utilizing workflow simulations to facilitate quantifiable business process improvements.
Class Objectives:	After completion of this two-day class, the student will be able to set-up, analyze and modify workflow model discrete event simulations using the Metastorm ProVision® discrete event simulator to quantifiably maximize process improvements. This class provides first-hand experience understanding business process component behavior using workflow model simulation techniques and building upon the concepts and techniques learned in the 101 Business Process Analysis course.
Prerequisites:	Metastorm's 101 Business Process Analysis class or equivalent experience using the Metastorm ProVision Workflow Modeler is required. Basic Workflow Modeling is not covered in this course.
Topic Outline:	Day 1 <ul style="list-style-type: none">▪ Introduction▪ Principles & Concepts▪ Exercise: Simulation▪ Sources<ul style="list-style-type: none">○ Count, Frequency & Rate○ Probability Distribution Function▪ Exercise: Basic Source▪ Empirical Streams▪ Exercise: Empirical Stream▪ Source Availability & Delay Time▪ Exercise: Source Availability & Delay Time▪ Workflows▪ Exercise: Transit Time & Capacity▪ Activities<ul style="list-style-type: none">○ Work Time○ Delay Time▪ Exercise: Activity Time▪ Recipes▪ Exercise: Recipe

- Resources
 - Types
 - Rates
 - Assignments
 - Availability
- Exercise: Resource Utilization
- Resource Delay
- Exercise: Resource Delay
- Cost Elements
 - Direct
 - Indirect
- Exercise: Cost Elements
- Decision Points
- Exercise: Decision Points

Day 2

- Junctions
 - Convergent/Divergent
 - Recipes
- Exercise: Junctions
- Stores
- Exercise: Stores
- Scenarios
 - Features
 - Recruitment
 - DES Details
- Exercise: Calculation
- DES Settings
 - Run Time
 - Warm-up Time
 - Cool-down Time
- Exercise: Simulation Time
- Resource & Commodity Constraints
- Exercise: Capacities
- Alternates & Crews
- Exercise: Alternates & Crews
- Simulation Paths
- Exercise: Simulation Paths
- Simulation with Animation
- Exercise: Animation
- Reports & Grids
- Exercise: Cost Reporting
- Resource Reporting
- Exercise: Resource Reporting
- Timing Calculation & Queues
- Exercise: Timing
- Activity States
- Exercise: Activity State
- Commodity States
- Exercise: Commodity State
- Resource States
- Exercise: Resource State

- Entity States
- Exercise: Entity State
- Auto Layout & Comparison
- Exercise: Auto Layout & Comparison

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