

## Process Simulator Essentials Course Syllabus

**Module 1:** Introduction to Visio and Process Simulator

**Module 2:** Model Building Basics. Includes Simple Queuing Systems, Basic Modeling Elements, Time Distributions

**Module 3:** A Manufacturing Paint Line

Phase 1: Periodic Arrivals, Batching & Unbatching,

Phase 2: Outlet Routings, Attach & Detach

Phase 3: Variables, Attributes, Log Statement , Inc & Dec, Percent Routings

**Module 4:** Output Viewer and Analysis

**Module 5:** Scenario Analysis. Adding parameters and creating scenarios. Using Macros. Paint line scenario analysis.

**Module 6:** User Distributions and More. User Distributions, Conditional Routes

**Module 7:** Conditional Logic. If Then logic, Use a Resource

**Module 8:** Resources, Subroutines and Local Variables. Resource Groups, Local Variables, Subroutines, Multi Entity tab

**Module 9:** Special Arrivals and Calendars. Scheduled Arrivals, Pattern Arrivals, Resource Shifts and Calendars, Create Route

**Module 10:** Connecting with External Files. External Arrivals using Excel, Import and Export using Excel

**Module 11:** Logic and Loops. Order, Wait Until, While-Do Loops, Comment, Display

**Module 12:** SubModels. Connecting models to each other

**Module 13:** Arrays. Arrays in Process Simulator, Exporting Data, and Termination Logic (this module's features are available only with the Process Simulator Professional edition)