

The Process Mapping & Simulation Exercises aim at supplying the Client with the skills and knowledge to make the simulation solution work for their specific requirements and for their organization. This is a 3 -day course; covering introduction to process diagramming and process data entry, upto process simulation.

The course material is divided into eleven areas of discussion. Each topic incrementally builds on knowledge obtained in the previous section. The Workshops involve hands-on experience apart from Training input.

COURSE OUTLINE

▸ **Topic 1 through 2: Creating Process Diagrams**

A process diagram, or flowchart, is a graphical representation of a process. Participants learn to create and modify process diagrams using basic diagramming methods. This includes manipulating departments, shapes, connection lines, and text. The Participants add and modify case text to represent the output of decision activities in the process, as well as other methods for creating and modifying process diagrams.

▸ **Topic 3: Advanced Process Diagramming**

Participants learn to create and manipulate shape numbers, incorporate phase lines in their diagram, and use on and off page connectors to manage page breaks in the process diagram. Advanced diagram formatting options are reviewed as well as redefining default settings while creating a process diagram. Templates are introduced as alternate starting points for your process diagramming.

▸ **Topic 4: Data Entry Overview**

Each shape on a process diagram represents an activity. The activity describes the behavior associated with the shape. Participants learn to capture, enter, and display fundamental process data and metrics for each activity. Advanced techniques for shape selection are discussed.

▸ **Topic 5: Creating Hierarchy**

Process diagrams from one file are easily merged into another iGrafx file. Activities may be linked to external files and web pages. Participants learn to create, modify, and manage process diagrams and links.

▫ **Topic 6: The Tabular View**

The default view of a diagram is the Normal (graphical) view. The Tabular view provides an alternate view of the diagram information. Participants learn to create, edit, and use the tabular view to document a process.

▫ **Topic 7: Input & Output**

Participants learn mechanisms for moving data, importing iGrafx FlowCharter, and other non-iGrafx files

▫ **Topic 8: The Process Environment.**

There are three components in a process simulation model. The three components are: Processes, Scenarios, and Reports. Participants learn to manipulate each component to describe and analyze their business processes. The Trace (animation) mode of process simulation is introduced. Participants use animation to follow the flow of transactions during simulation and analyze a process for bottlenecks.

▫ **Topic 9: Controlling the Flow.**

A transaction flows through a process from activity to activity along directed connection lines. Participants learn to control the flow of transactions using attributes, functions, and expressions.

▫ **Topic 10: Activities.**

Each activity in a process diagram may have a behavior assigned to it. Using the Properties dialog box, Participants learn to describe activity behaviors such as batching, resource requirements, work, delay, sub processes, splits, decisions, and more.

▫ **Topic 11: Simulation Project.**

A process for executing a simulation project is introduced. Participants are introduced to the methodology, and use these methods to analyze and improve a process for optimal resource utilization.

iGrafx Key Features include:

- Design of Experiments with what-if process analysis
- Calculate costs, units, cycle times, resource utilization, process efficiency
- Other diagram types (Cause & Effect, Pareto, FMEA, etc).
- Integration with MINITAB® and JMP®
- Integrated Lean tools and Value Stream Mapping