ACADZ, inc.

Efficiency Solutions for Semiconductor and Electronics Manufacturers

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"The training helped us design simulation models for proactive decision making that saves us time and money during ongoing production"

ACADZ Semiconductor Libraries™ Training Course: Using Extend™ + Manufacturing Software and ACADZ Semiconductor Libraries™

Prices effective January 1, 2001

In this 3-day course you will learn to build and use Extend™ simulation models, using blocks from the Generic, Discrete Event, Manufacturing and **ACADZ Semiconductor Libraries™** .

This course is designed for model builders or users, new to the Extend™ software package, with any general simulation background. The course has been acclaimed by participants with levels of simulation exposure ranging from no exposure to advanced. Extend™ facilitates learning simulation through doing; therefore the course focuses on the use of Extend™, through which participants gain a firm foundation in simulation and modeling principles. For those experienced in simulation, the course provides the fundamentals necessary for a quick ramp up to building or understanding existing models in Extend™.

You will build models in step by step exercises from the ground up. While building models to address sample problems, the class will encounter classical and important issues in problem and process analysis. The instructor will relate real industry experiences to create a proper context for these issues. Participants will discuss these issues as they affect their industries and the proper simulation techniques will be present for solving these issues.

Objectives

- Use Extend™ and **ACADZ Semiconductor Libraries™** to build, experiment with, and understand continuous and discrete event models.
- Understand the Extend™ and **ACADZ Semiconductor Libraries™** block approach for model building, and experience how sensible and navigable models and templates are formed through the features of hierarchy, cloning, animation, graphic design, customization, and custom blocks.
- Develop the ability to build a model from process parameters and policies.

Topics

- Understanding time and flows in discrete event models in Extend™, and recognizing classes of problems.
- Building discrete event models of manufacturing operations.
- Using Generic blocks in discrete event models.
- Modeling items, queues, delays, blocking/starving, balking, schedules and breakdowns, routing and controllers, line balancing, batching, and resources in open and closed systems.
- Modeling of Little's Law (better known as the law of Inventory in queuing theory) equates inventory to the product of mean arrival rate of products for processing and total processing time plus the total waiting time involved.
- Modeling of Kingman's Formula accounts for random variations in arrival and processing times due to variability, where inventory depends on input variability, capacity variability, and input and processing rates.

Fee

- $1200 Per Person, Per Course, Includes; Instruction, ACADZ Manuals & Lesson Notes (minimum $7200 per course)
- The training course is taught by Donald W. Collins, Ph.D., E.E. (see www.acadzinc.com for more information)