

Put yourself on a faster track to success by learning how to build and analyze simulation models using ExtendSim in this 4 day hands-on workshop. Basics of discrete event simulation will be covered in the first half of this course, plus you'll get an essential understanding of the ExtendSim architecture. The focus of the second half is on problem solving.

From the very first day of this course, you will be building, running, and analyzing models. The rest of the week will be spent exploring modeling components and concepts as you apply these concepts to a class project while being coached by the instructor. All the while you will be learning and applying more advanced concepts to the model to understand appropriate analysis techniques.



By the end of the course, you will feel confident in building ExtendSim models and have your eyes opened to the powerful tools that can be quickly used for in-depth model analysis.

agenda

Introduction

Lesson 1: ExtendSim Application

- Understanding fundamental simulation concepts

Lesson 2: Modeling

- Learning the basic item handling blocks and using key value handling blocks
- Working with item properties, such as attributes and priorities
- Presentation features including hierarchy, cloning, and 2D animation
- Creating, editing, and accessing an ExtendSim database



Lesson 3: The Basic ED Example

- Routing, plus batching and unbatching items

Lesson 4: The Data

- Working with Equation blocks
- Data management and exchange with an ExtendSim database

Lesson 5: Debugging, Verification, & Validation

- Debugging and troubleshooting
- Learning validation and verification techniques

Lesson 6: The Analysis

- Resource Management using the Resource Pool and Resource Item methods
- Scenario Manager

agenda -- continued

Lesson 7: Statistics

- Understanding basic simulation statistics

Conclusion

prerequisites and prepping for the course

You will be working on a Windows laptop so you must have basic Window computer skills. Knowledge of basic statistics (random distributions and confidence intervals) is recommended.

Before your first day of class, it will be extremely helpful if you familiarize yourself with ExtendSim. If you have not already done so, please go through the Tutorials in the Discrete Event Quick Start Guide or watch its video.

course materials supplied

- Laptop computer for each student's use
- Course manual with case studies
- Solution files for all case studies and exercises

after the course

- You'll receive a Certificate of Completion.
- Plus, if you have a few more questions within the first year after completing this course, you qualify for a free online coaching session from your trainer.