

Master some of ExtendSim's most powerful capabilities:

- Gain advanced skills with the ExtendSim internal database
- Learn how to maximize usage of equation-based blocks
- Create custom components in the ExtendSim development environment

This course covers the same content as the 4.5-day In-Person Advanced workshop, but in an online instructor-led class through GoToMeeting™. It consists of six 2 hour sessions over the course of 2 weeks - on Mondays, Wednesdays, and Fridays. Each session has a start time of 3pm EDT/UTC-4.



week 1 agenda

Session 1: Database Basics

- Overview of the Course
- Creating Databases, Tables, Fields, and Records
- Database Indexes
- Parent Child Relationships
- Reading & Writing Data using Value blocks (Basics)

Session 2: Reading & Writing & Importing & Exporting

- Reading & Writing Data using Value blocks (Options)
- Dynamic linking between an ExtendSim Database and Data
- Reading & Writing Data using Item blocks
- Importing & Exporting Data: Data Import Export

Session 3: Basics of Equation Blocks

- Introduction to the Equation Blocks & The ModL Language
- Operators
- Input and Output Variable Types
- Variables and Data Types: Local, Static, Global, and System Variables
- Control Statements: If Statement and For Loop
- Common Functions: Math, Animation, Database, and more

week 2 agenda

Session 4: Custom Blocks

- Creating a Custom Block and Custom Library
- Dialog Items
- Functions and Procedures
- Messages and Message Handlers

week 2 agenda -- continued

Session 5: Simulation Architectures

- Continuous Simulation Architecture
- Discrete Event Simulation Architecture
- Event Posting Architecture

Session 6: Messaging

- Connector Messaging
- Equation Messaging

prerequisites and prepping for the course

Essential ExtendSim Training, or, on instructor approval, a comparable proficiency is required. It will also be beneficial to be comfortable with the database concept and be familiar with programming concepts and terminology (C++ recommended).

course materials supplied

- Course manual with case studies.
- Solution files for all course-based case studies and exercises.

after the course

- You'll receive a Certificate of Completion.
- Book of additional case studies with solutions for post-course practice.
- 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.