

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

Using hands-on exercises, you will not only learn how to navigate ExtendSim internal relational databases, but how to structure a database in your own model. Plus, pick up techniques to use the database to develop really advanced constructs you NEVER knew were possible.



Learn how to wake up your blocks through the databases' Link Alerts feature, plus configure compiled logical statements as you get in-depth into the programming of equation-based blocks.

In addition, this course covers the common uses and features of the ExtendSim programming language (ModL), as well as the mechanics of block creation. You'll start by building a simple ExtendSim block and storing it in a library. Then, as you delve deeper into the development environment, you'll add more features to your custom block.

The Online Advanced Training course includes six 2-hour sessions over the course of 2 weeks, held on Mondays, Wednesdays, and Fridays. Each session begins at 3pm EST/9pm CET.

Agenda - Week 1

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

Agenda - Week 2

Session 4: Custom Blocks

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

Session 5: Simulation Architectures

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

Session 6: Messaging

- Connector Messaging
- Equation Messaging

Who Should Attend

This course is ideal for Engineers, Managers, System Analysts, and anyone else anyone else who wants to learn how to manage data and maximize the usage of databases in ExtendSim and how to create custom components and features in ExtendSim.

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).

Included with the Course

- Course manual with case studies.
- Solution files for all course-based case studies and exercises.
- Book of additional case studies with solutions for post-course practice.
- Certificate of Completion.

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.