

DPL In-house Training Course (Two Days)

The first section of the course provides the foundation for building models in DPL. It uses an Excel-based financial model as the example case from which a DPL model is built and analyzed. The course involves presentation of slide materials by the instructor and worked examples done by each attendee. The focus is on teaching you how to develop models from spreadsheets and generate the fundamental outputs of a probabilistic analysis.

Day 1: Model Building and Basic Outputs

- 1 Introduction
- 2 Developing Excel-linked Decision Models
 - 2.1 Inspecting the Excel Spreadsheet
 - 2.2 Creating an Influence Diagram from an Excel Spreadsheet
 - 2.3 Adding and Linking New Nodes to the Spreadsheet
 - 2.4 Editing Node Data
 - 2.5 Editing Get/pay Expressions
- 3 Deterministic Sensitivity Analysis
 - 3.1 Generating Value Tornado Diagrams
 - 3.2 Understanding the Results
 - 3.3 Methodology: Probability Assessments & Biases
- 4 Probabilistic Models
 - 4.1 Changing Node Type
 - 4.2 Generating Base Case & IDA Tornado Diagrams
 - 4.3 Including Dependence between Variables in the Influence Diagram
 - 4.4 Overview of DPL Arc Types
- 5 Decision Analysis Results
 - 5.1 Generating and Understanding DPL Policy Trees™
 - 5.2 Generating and Understanding Risk Profiles
 - 5.3 Generating and Understanding Value of Information and Control Charts
- 6 Using the Endpoint Database
 - 6.1 Overview of the DPL Workspace Window
 - 6.2 Saving Results
 - 6.3 Recording and Using the Endpoint databases (Re-play Endpoints)
 - 6.4 Comparing Multiple Risk Profiles

DPL In-house Training Course (Two Days), Continued

Day 2 builds on the first, providing further instruction on how to build out a DPL Excel-linked model. The concept of asymmetry is introduced, a downstream decision is added and multiple get/pay expressions are defined. A new model is introduced in which Multiple Attributes are defined. Lastly, we'll tackle an in-depth case study that is applicable to the decisions of your organization. The focus of this section is on teaching you how to make the most of the DPL's rich modeling environment, extensive analysis features and processing power.

Day 2: Asymmetry and Multi-Period/Multi-Attribute Models

7 Strategy Tables

- 7.1 When to use a Strategy Table
- 7.2 Defining Strategies
- 7.3 Adding and Removing Decisions
- 7.4 Strategy Table Case

8 Asymmetric Multi-Stage Decision Models

- 8.1 Symmetric v. Asymmetric
- 8.2 Adding New Events to the Decision Tree
- 8.3 Changing a Node's Outcome Grouping
- 8.4 Adding a Downstream Decision
- 8.5 Adding Multiple Get/Pay Expressions ("Pay As You Go" cash flow modeling)
- 8.6 Generating and Understanding DPL Policy Summaries™

9 Downstream Decisions and Option Value

- 9.1 Re-ordering the Decision Tree
- 9.2 Performing a Subtree
- 9.3 Adding a Downstream Decision
- 9.4 Generating and Understanding Option Value Charts
- 9.5 Policy Summary Comparisons
- 9.6 Running a Sensitivity on a Probability

10 Tracking Multiple Metrics

- 10.1 Introduction to DPL's Multiple Attribute Feature
- 10.2 Incorporating Multiple Attributes
- 10.3 Editing Get/Pay Expressions for Multi-Attribute Models
- 10.4 Generating and Understanding Time Series Percentiles Charts

11 Using Excel Initialization Links

- 11.1 Types of Excel Links in DPL
- 11.2 Storing Probabilities and Values in Excel with Initialization Links

12 Extended case study