

i2 SCS v6.3 Selection Constraints Virtual Class



Summary

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| Solution Type: | SCM |
| Industry: | Strategic Planning |
| Product(s)/Template(s): | i2 Supply Chain Strategist |
| Target Audience: | Technical Implementers (Super User / Application Engineer) |
| Delivery Method: | Instructor-Led Online Training |
| Training Approach: | Lecture |
| Duration: | <ol style="list-style-type: none">1. Two 1-½ hour web-based instructional sessions2. Course exercises completed individually3. 1 hour Web-based exercise review & discussion All of the above will take place within the span of one week. |
| Version: | 6.3 |

Description

This course is intended for Supply Chain Strategist users that are interested in learning how to develop advanced model constraints using SCS' selection constraint capabilities.

Content

Course Outline

- Review of selection constraints
 - What are selection constraints used for?
 - Continuous vs. discrete variables
 - Examples of different types of selection constraints
- Strategy for developing selection constraints
- Approaches for creating many selection constraint records
- Detailed discussion of common selection constraints
 - Facility selection constraints – opening, closing
 - Facility missions with selection constraints
 - Modeling capacity constraints using selection constraints
 - Modeling quality through selection constraints
- Using selected selection constraints
- Reporting on selection constraint output

Examples/exercises:

DC problem – cross-dock + main DC

Small, medium and large DC selection

Service level constraints – 95% within 500 miles; remainder unlimited service distance

Single-sourcing manufacturing plant

Fixed cost for intermodal

Prerequisites

- Basic PC knowledge and skills, including MS Windows™
- Knowledge and/or experience in the general supply chain concepts is helpful but not required.
- Knowledge and/or experience in optimization and simulation is helpful but not required.
- Intermediate-level SCS user
- Comfortable with Access 2003 (can write queries and manipulate data from SCS in Access) and Excel 2003

Course Objectives

On completion of this course, you will be able to:

- Understand when and how to use selection constraints
- Translate a variety of complex business requirements into SCS selection constraints
- Develop selection constraints for facilities, products, processes, transportation modes, and combinations of these
- Use Access and/or Excel to create selection constraints
- Troubleshoot problems with selection constraints
- Understand and report on the results of selection constraints