

Querying MagicDraw Models with Structured Expressions

Details

Length: 1 Day (8 hrs)

Venue: Virtual Only

Prerequisite: At least one introductory class on SysML

Course Outline

Module 1: Course Introduction

Module 2: The Basics

- What is a Query?
- Key Concepts
 - Query Structure
 - Contextual Variables
 - Operations
 - Outputs
- Uses for Structured Expressions
- The Expression Editor

Module 3: UML Metamodel and Profiles

- Overview
- UML Metamodel
 - Metaclasses
 - Metaproperties
 - Reading the Metamodel
- Profiles
 - Stereotypes
 - Tag Definitions/Values

Module 4: Navigation Operations

- Overview
- Simple Navigation
- Metachain Navigation
- Metachain Helper Functions

Module 5: Find, Test, and Filter

- Nesting Operations
- Find Operation

- Filter Operation
- Type Test
- Property Test
- Usage Examples
 - Smart Packages
 - Generic Table with Custom Scope

Module 6: Values & Operations from Model

- Values
 - Primitives
 - Elements & Collection
- Operations from Model
 - Definition
 - Usage
 - Built-In Operations

Module 7: Scripts

- Script Operation
 - Overview
 - Usage
- Supported Languages

Module 8: Applications in MagicDraw

- Generic Tables
- Dependency Matrices
- Relation Maps
- Smart Packages
- Dynamic Legends
- Validation Rules