

# COURSE OUTLINE

## SysML for Reviewers

### Module 01

#### Training Overview

- Instructor Introduction
- Course Purpose
- Course Agenda
- Module Structure
- SysML Overview
- Additional References

### Module 02

#### Introduction to SysML

- Key Definitions
- Introduction to MBSE
- Introduction to SysML

### Module 03

#### Introduction to Cameo Collaborator

- What is Teamwork Cloud?
- Teamwork Cloud Overview
- Cameo Collaborator Overview
- High-Level Architecture
- Collaborator User Interface
- Reviewing Models with Collaborator
- Collaborator Comments
- Model Editing with Collaborator

### Module 04

#### Packages

- Diagram Example and Purpose
- Packages
- Containment
- Models
- Model Libraries
- Diagram Annotations
- Project Structure Best Practices

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## Requirements

- Diagram Example and Purpose
- Requirements
- Requirement Abstractions
- Extended Requirements
- Requirement Relationships
- Requirement Tables
- Requirement Matrices
- Requirement Maps

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## Block Definition Diagrams

- Diagram Example and Purpose
- Blocks
- Properties
- Behaviors
- Associations
- Generalization

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**07**

## Internal Block Diagrams

- Diagram Example and Purpose
- Interfaces
- Part / Reference / Port Properties in IBDs
- Connectors
- Item Flows

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## Use Cases

- Diagram Example and Purpose
- Use Cases
- Actors
- Blocks as System Boundaries
- Associations
- Generalizations
- Includes and Extends

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## Activity Diagrams

- Diagram Example and Purpose
- Use Case Connectivity
- Activity Partitions
- Actions
- Flows
- Simulation Execution Rules
- Control Nodes
- Functional Decomposition
- Allocation of Behaviors to Blocks

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## Sequence Diagrams

- Diagram Example and Purpose
- Sequencing
- Lifelines
- Messages
- Duration / Time Constraints
- State Invariants
- Combined Fragments

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## State Machines

- Diagram Example and Purpose
- Navigating the State Machine
- States
- History
- Transitions
- Behaviors

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## Constraints & Parametrics

- Diagram Example and Purpose
- Constraint Blocks
- Requirements Traceability
- Building Parametric Diagrams
- Simulation