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### SysML v2 Accelerator™ Model User Training Course Syllabus

**Note: details for forthcoming content during early access to this course is a projection and is subject to change. Such details include, but are not limited to, text displayed in blue font.**

**Course Title:** On-Demand SysML v2 Accelerator™ Model User Training Course

The SysML v2 Accelerator™ Model User Training Course is an accessible introduction to the OMG Systems Modeling Language, Version 2. SysML is a general-purpose modeling language intended to facilitate a model-based systems engineering (MBSE) approach. Taught from first principles without requiring prior SysML v1 experience, this course focuses on SysML v2 as a precise, unambiguous communication tool for system design.

Students will learn to successfully navigate and interpret models by understanding core language concepts. The curriculum focuses on the graphical and textual syntax, the fundamental definition and usage pattern, and how complex system structure, behavior, interfaces, and requirements are represented. Graduates will be fully prepared to read, understand, and reason about SysML v2 models as effective contributors within an MBSE team.

#### Objectives

- Enable participants to achieve the SysML proficiency they need to effectively interpret and reason about systems models as members of a model-based systems engineering (MBSE) team
- Prepare candidates for the *OMG SysMLv2 Model User* (Level 1) certification exam

#### Duration

- 24 hours of self-paced modules delivered on demand through the Delligatti Associates Learning Center

#### Training materials (electronic files downloadable from Delligatti Associates Learning Center):

- 45 formative assessment checkpoint questions, designed to:
  - reinforce learning and retention of core SysML v2 concepts while the learning is taking place, and

- prepare students to achieve SysMLv2 Model User certification, as the questions mirror the style, format, and coverage of the certification exam.

Note: As the course is incrementally released, the curriculum will build to an expected 45 or more of these sample certification exam questions.

- “SysML v2 Training Resources Guide” with links to additional learning resources on the internet

**Training materials/equipment (provided by Client):**

- Computer with high-speed internet connection and the ability to stream video content from Vimeo. (Note: the course is accessed via the Delligatti Associates Learning Center learning management system which uses Vimeo to stream the training videos. Some organizations’ IT policies prevent streaming from Vimeo, in which case we recommend learners access the course from outside their organization’s IT network, including VPN.)
- Access to an MBSE tool/application is not required to participate in this course. Though learners will be exposed to the Cameo Systems Modeler environment throughout the course, the scope and focus is on SysML v2 language comprehension rather than tool mechanics. Students who would like to practice the concepts learned in the course need to obtain their own license for Cameo Systems Modeler or a compatible MBSE tool.

**Scope of Coverage**

This course consists of the following modules:

Module	Topic	Duration (h:mm)
0	Introduction	0:27
1	The Systems Modeling Language	5:00
2	Structural Modeling (Part 1)	3:24
3	Structural Modeling (Part 2)	TBD
4	Behavioral Modeling Overview	TBD
5	Actions	TBD
6	States	TBD
7	Constraints and Requirements	TBD
8	Cases	TBD
9	Supporting Concepts	TBD

**Module 1: The Systems Modeling Language**

Coverage: brief history and motivation for SysML v2, structure of the systems modeling language, textual model definition, fundamental MBSE precepts, features and relationships, typing and specialization concepts, namespaces and memberships, import relationships, dependencies, annotations, and allocations.

## **Module 2: Structural Modeling (Part I)**

Coverage: occurrences, part definitions, declaration of elements in the textual model, items, attributes, setting feature values, feature chains (dot-notation), ports, constraints, perform action usages, and exhibit state usages.

## **Module 3: Structural Modeling (Part II)**

Coverage: interconnection views, specialization via subsetting and redefinition, representation of internal assemblies with parts, connections, ports, interfaces, bindings, and message-based interactions between parts.

## **Module 4: Behavioral Modeling**

Coverage: behavioral concepts in SysML v2, including behaviors and parameters, steps and action usages, successions and flows, states, and calculations.

## **Module 5: Actions**

Coverage: action definitions and usages, basic action constructs, control and object flows, conditional successions, decision and merge logic, fork and join semantics, and start, send, accept, done, and terminate, and “if” action usages.

## **Module 6: States**

Coverage: state definitions and usages, state actions, transitions, trigger kinds, guards, state completion semantics, nested and concurrent states, and terminate actions within states.

## **Module 7: Constraints and Requirements**

Coverage: constraints review, requirement definitions, requirement usages, allocation of requirements, and satisfaction relationships between requirements and system elements.

## **Module 8: Cases**

Coverage: cases overview, use cases, actors, use case purposes, and relationships including included use cases used to structure system usage descriptions.

## **Module 9: Supporting Concepts**

Coverage: views and viewpoints, metadata

## **OMG SysMLv2 Model User Certification**

**The course fee does not include the cost of the SysMLv2 Model User certification exam.** Each participant who wishes to pursue this certification after the course ends must individually schedule and pay for the exam via the Pearson Vue website.

## Course Completion Certificate

- Upon completion of all modules of the course, a completion certificate, valid documentation to claim recertification Professional Development Units (PDUs) for technical certifications, will be issued.

## Terms and Conditions of Service

- For purchases made in the online store, buyers will receive an automated confirmation email with access codes and instructions for accessing the training in the Delligatti Associates Learning Center. To help ensure delivery of this email, please be sure to add the delligattiassociates.com domain to your safe senders list. Buyers purchasing this course on behalf of others (i.e., you are not the participant), will need to provide the access code(s) and instructions to the participant(s).
- For purchases made by purchase order and invoiced by other means, Delligatti Associates will email a list of access codes along with instructions for learners to redeem them to the client's point of contact (POC) within one (1) business day of Delligatti Associates receiving payment.
- Access codes are valid for one (1) year from August 31, 2026, or from the date the full course is made available to the client POC, whichever is later. Once a learner redeems an access code, they will have access to the On-Demand SysML v2 Accelerator™ Model User Training Course until the end of the period of service. No extensions will be granted.
- Access codes for the On-Demand SysML v2 Accelerator™ Model User Training Course cannot be traded for access codes for any other Delligatti Associates training courses.
- Each access code may only be redeemed once by a single named individual. Access codes are not transferable once redeemed.
- Access codes not redeemed prior to the period of service end date will be forfeited. No refunds will be provided for unused access codes.

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