Modeling with ArchiMate & Archi

Course Outline, Course Version: 4-day, 24 classroom hours

Learning Objectives/Outcomes

- Learn the essential concepts and patterns of the ArchiMate language and be able to work with the reference material to begin using Archimate in support of your work.
- Learn and apply ArchiMate standard viewpoints.
- Introduce the free, open-source Archi modeling platform and establish basic literacy with the tool.
- Work with Archi's GitHub plugin to enable multi-user authoring.

General Schedule / Outline

	Day 1	Day 2	Day 3	Day 4
9 AM - noon	**[Module 0]** Archi & Modeling Essentials	**[Module 1]** Archimate Framework Fundamentals	**[Module 2 cont'd]** Technology Layer	**[Module 4] Tailored Content / Case Studies** Selective topics / supplementary content.
1 PM – 4PM		**[Module 2]** Business and Application Layers	**[Module 3]** Business Capability Modeling and Illustrating Roadmaps	Multi-User Capabilities with Archi

Module 0 Outline: Tool and Modeling Essentials for Archimate

Overview
This module introduces the fundamentals of Archi and basic modeling concepts.

Learning Outcomes
- Gain an introductory overview of Archi (navigation, features, and options).
- Understand model elements, connectors, and diagrams.
- Learn about how Archi implements traceability and user-defined properties.

Module 1 Outline: Archimate Framework Essentials

Overview
As the first module to focus on Archimate, considerable time is spent understanding foundation constructs of the modeling language. Skill with the modeling tool is further improved with the introduction of productivity-boosting tips/features.

Learning Outcomes
- Gain an introductory overview to Archimate as a whole.
- Describe the different layer, aspects, and connectors in the Archimate core.
- Be able to use reference material for standard viewpoints to guide your modeling.

Module 2 Outline: Application & Business Layers

Overview
The central application layer is a key focal point of Archimate and the concepts present a critical element of connecting IS and business oriented elements of an architecture. In this session we will become familiar with all the key constructs and viewpoints of the application layer and experience a number of (simplified) case studies to explore its uses. We will also learn essential elements of the business layer.

Learning Outcomes
- Gain an introductory overview of the Application layer and its related viewpoints.
- Introduce the business layer and Implementation / Migration Layers
- Improve skill with Archi and learn principles and techniques for managing models effectively.
- Be able to depict application layer elements using Archimate and Archi.

Module 3 Outline: Capability Modeling and Roadmaps

Overview
Modeling using business capabilities is a common way to organize and arrange enterprise architecture content. This unit introduces how capability modeling can be used as the primary way to organize and approach modeling with archimate. The implementation and migration layer

is used to illustrate change across the architecture and is a useful set of constructs for Architects. Using the concepts of plateaus and gaps is introduced as a means to express a roadmap.

Learning Outcomes

- Model business capabilities and develop capability heat maps.
- Use and apply Archimate Gaps and Plateaus to express a roadmap.
- Illustrate before/after views of the Architecture.

Module 4 Outline: Tailored Content & Case Studies

Overview

Unit 4 is a tailored module in which additional Archimate and Archi topics can be included. The primary focus of this module is to use the classroom time to apply and adapt Archimate to usage within the organization. Case studies, taken from real work and adapted for the classroom, can be prepare ad-hoc to supply curriculum for this unit. This unit can also be used to develop patterns and viewpoints specific to the needs of the organization using a facilitated workshop.

Learning Outcomes

- Use and apply Archimate to subject matter within the organization.
- Exercise Archi/Archimate skills in applied case studies.
- Develop organizational standards and patterns.