The Open Group® Certification for People

TOGAF® Certification Program Conformance Requirements (Multi-Level)

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The Open Group® Certification for People:
TOGAF® Certification Program Conformance Requirements (Multi-Level)

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1. Background

1.1 Introduction

This document – The Open Group® Certification for People: TOGAF® Certification Program Conformance Requirements (Multi-Level) – is an integral part of The Open Group Certification for People: TOGAF Certification Program (the Program). Defined terms herein are in addition to definitions in the TOGAF Program Configuration document applicable to this document.

This document defines the Learning Outcome requirements for certification of individuals within the Program, which in turn form the Learning Outcome requirements for Accredited Training Courses.

1.2 Terminology and Definitions

This table defines terms or clarifies the meaning of words used within this document. Where an acronym is also used, it is provided in parentheses.

Accredited Training Course (ATC)	A training course, operated by a third party, that has successfully completed the accreditation process, and which is listed in the register of Accredited Training Courses on the Certification Authority's website.
Body of Knowledge (BoK)	The set of information within the subject area of which a Candidate is expected to have understanding in order to achieve certification within the Program.
Candidate	A person seeking certification.
Certification Authority	The organization that manages the day-to-day operations of the Program. The Open Group is the Certification Authority for the Program.
Examination Provider	The organization(s) contracted by The Open Group to provide and administer examinations.
Key Learning Point (KLP)	A self-contained learning object, derived from the Body of Knowledge with a unique reference, typically ranging from 2 to 15 minutes' study time.
Learning Outcome	What the Candidate should know, understand, or be able to do on completion of learning about one or more Key Learning Points. Each Learning Outcome should have at least one Key Learning Point reference and define the depth of knowledge required for each Key Learning Point.
Learning Unit	A related set of Learning Outcomes. It is expected that a Learning Unit would equate to between 30 and 90 minutes of taught or self-study learning equivalence.

2.   Conformance Terminology

The Conformance Requirements by certification level are specified as sets of Learning Units. To achieve certification for a given level, Candidates must complete the applicable Learning Units and successfully pass the corresponding Indicator of Compliance (see Section 5).

The definition of the Learning Units does not dictate the structure, order, or time duration that topics should be taught in an Accredited Training Course. Training organizations are free to structure their courses as they see fit, so long as Candidates have the mandatory Learning Outcomes at the end of a course for the target certification level.

2.1   Learning Unit Format

Each Learning Unit is defined in a table organized as follows:

	UNIT Number	Unit Name – A descriptive name for the Learning Unit		Bloom's Taxonomy Level	KLP Reference
(A)	**Purpose**	…			
(B)	**Learning Outcome**	1.1	The Candidate ...		
		1.2		(C)	(D)
		1.3			

Notes

(A)   Purpose: The purpose of the Learning Unit. What a Candidate will have learned by completing the Unit. Most of the time this corresponds with a chapter or major section of the Body of Knowledge.

(B)   One or more detailed Learning Outcome statements together with an associated Bloom's Taxonomy level and KLP Reference. A specific term is used to define the depth of learning, from low to high as follows:

   — Identify – name one or more items

   — List – name multiple items

   — Define – provide a definition of a term

   — Demonstrate – describe and explain a concept or term

   — Describe/State – provide a description of or statement for a concept or item; give a factual statement

   — Explain – provide a description with a rationale

   — Discuss – the ability to write logically about a topic

   — Justify – demonstrate the correctness of an assertion through a written discussion

(The adverb *briefly* is used to qualify Learning Outcome statements where Candidates are expected to be able to concisely or succinctly describe or explain the item.)

(C)   Bloom's Taxonomy Level: Defined using "Bloom" action verbs (see Section 7.1).

(D)   KLP Reference: A reference back to the Key Learning Point within the Body of Knowledge (see Section 6). **This is required for traceability.**

3. TOGAF Enterprise Architecture Conformance Requirements

To achieve certification at Level 1, Candidates must complete all Learning Units defined in this section and successfully pass the corresponding Indicator of Compliance for Level 1 certification (see Section 5).

3.1 Level 1 Syllabus

3.1.1 Unit 1 – Concepts

UNIT 1	Concepts		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to introduce the concepts of Enterprise Architecture and the TOGAF Standard.			
Learning Outcomes		The Candidate is able to …		
	1.1	Describe what an enterprise is.	1_Remembering	{S0} §1.1
	1.2	Explain the purpose of Enterprise Architecture.	2_Understanding	{S0} §1.1 G186 §3.1 G20F §1.2
	1.3	List the key benefits of having an Enterprise Architecture.	1_Remembering	{S0} §1.1 G184 §3.6
	1.4	Explain why the TOGAF Standard is suitable for use as a framework for Enterprise Architecture.	2_Understanding	{S0} §1.1 G20F §1.2
	1.5	List the four architecture domains that are commonly accepted as subsets of an overall Enterprise Architecture and which the TOGAF Standard supports.	1_Remembering	{S0} §3.3
	1.6	Briefly describe how architecture abstraction can be used in Enterprise Architecture.	1_Remembering	{S0} §3.7
	1.7	Briefly describe the Enterprise Continuum.	1_Remembering	{S0} §3.10 {S4} §6.2
	1.8	Briefly explain the Architecture Repository.	2_Understanding	{S0} §3.11 G186 §5.1
	1.9	Briefly explain the TOGAF Content Framework and Enterprise Metamodel.	2_Understanding	{S0} §3.12 G184 §8.3
	1.10	Briefly explain what an Architecture Capability is.	2_Understanding	{S0} §3.13, 3.14 G184 §3.3, 5.1

UNIT 1	Concepts		Bloom's Taxonomy Level	KLP Reference
	1.11	Briefly explain risk management.	2_Understanding	{S2} §9.1 G152 §3.1.1
	1.12	Briefly explain gap analysis.	2_Understanding	{S2} §5.1 G186 §15.2.3

3.1.2   Unit 2 – Definitions

UNIT 2	Definitions – Level 1		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand relevant terminology.			
Learning Outcomes		The Candidate is able to …		
	2.1	Define the following concepts: Application Architecture Architecture Landscape Architecture Model Artifact Business Architecture Business Model Capability Capability Architecture Data Architecture Deliverable Gap Metamodel Modeling Requirement Role Segment Architecture Stakeholder Strategic Architecture Technology Architecture Transition Architecture Work Package Note: No definition from this list is required to be taught separately, or be examinable, unless it is used in the learning objective of another unit.	1_Remembering	{S0} §4.3 {S0} §4.15 {S0} §4.17 {S0} §4.23 {S0} §4.27 {S0} §4.31 {S0} §4.33 {S0} §4.34 {S0} §4.39 {S0} §4.40 {S0} §4.47 {S0} §4.54 {S0} §4.56 {S0} §4.64 {S0} §4.66 {S0} §4.67 {S0} §4.75 {S0} §4.77 {S0} §4.80 {S0} §4.83 {S0} §4.88

3.1.3 Unit 3 – Introduction to the ADM

UNIT 3	Introduction to the ADM – Level 1	Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand the Architecture Development Method (ADM) and briefly explain the purpose and objectives of each phase, including at a high level how to adapt and scope the ADM for use.		
Learning Outcomes		The Candidate is able to …		
	3.1	Briefly describe the ADM and its phases.	1_Remembering	{S0) 3.4 {S1} §1.2.2
	3.2	Describe the difference between "draft" and "approved" deliverables.	1_Remembering	{S1} §1.2.2
	3.3	Explain the iterative approach of the ADM.[1]	2_Understanding	{S1} §1.2.1 G186 §5.2, 5.2.3
	3.4	Explain the need to govern the creation, development, and maintenance of Enterprise Architecture.	2_Understanding	{S1} §1.4 G186 §15.1.1, 15.1.2, 15.2.1
	3.5	Briefly explain how to scope an architecture.	1_Remembering	{S1} §1.5
	3.6	Briefly explain the reasons for considering architecture alternatives, including understanding concerns and trade-off.	2_Understanding	{S1} §1.6, 1.6.1
	3.7	Briefly explain the purpose of the Preliminary Phase in developing an Enterprise Architecture Capability.	1_Remembering	G184 §13.1
	3.8	Describe the objectives of the Preliminary Phase.	1_Remembering	{S1} §2.1
	3.9	Briefly explain the purpose of Phase A.	2_Understanding	G186 §5.2.1, 5.2.2 Table 4
	3.10	Describe the objectives of Phase A.	1_Remembering	{S1} §3.1
	3.11	Briefly explain the purpose of Phases B, C, and D.	2_Understanding	G186 §5.2.2 Table 4
	3.12	Describe the objectives of Phase B.	1_Remembering	{S1} §4.1
	3.13	Describe the objectives of Phase C for Data Architecture and Application Architecture.	1_Remembering	{S1} §5.1, 6.1, 7.1
	3.14	Describe the objectives of Phase D.	2_Understanding	{S1} §8.1

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[1] It is recommended to use the GANTT chart example in G186 to illustrate the inter-dependent nature of the ADM phases, highlighting that many of the steps can be executed simultaneously, and that phases can be continually revisited iteratively.

UNIT 3	Introduction to the ADM – Level 1		Bloom's Taxonomy Level	KLP Reference
	3.15	Briefly explain the purpose of Phase E.	1_Remembering	G186 §5.2.2 Table 4
	3.16	Describe the objectives of Phase E.	2_Understanding	{S1} §9.1
	3.17	Briefly explain the purpose of Phase F.	2_Understanding	G186 §5.2.2 Table 4
	3.18	Describe the objectives of Phase F.	1_Remembering	{S1} §10.1
	3.19	Briefly explain the purpose of Phase G.	2_Understanding	G186 §5.2.2 Table 4
	3.20	Describe the objectives of Phase G.	1_Remembering	{S1} §11.1
	3.21	Briefly explain the purpose of Phase H.	2_Understanding	G186 §5.2.2 Table 4
	3.22	Describe the objectives of Phase H.	1_Remembering	{S1} §12.1
	3.23	Describe the objectives of the Requirements Management process.	1_Remembering	{S1} §13.1
	3.24	Describe the purpose of Requirements Management.	1_Remembering	G186 §6.1.1
	3.25	Explain the information flow between the ADM phases.[2]	2_Understanding	G186 §5.2
	3.26	Explain how developing architecture for different purposes, or levels of detail, can be applied to support Agile software development.	2_Understanding	G186 §12.1

3.1.4 Unit 4 – Introduction to ADM Techniques

UNIT 4	Introduction to ADM Techniques – Level 1		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to introduce the Candidate to ADM techniques available to support application of the ADM.			
Learning Outcomes		The Candidate is able to …		
	4.1	Briefly describe how the ADM and Supporting Guidelines and Techniques relate to each other.	1_Remembering	{S1} §1.1.3
	4.2	Explain the purpose of Architecture Principles.	2_Understanding	G184 §4.3.3

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[2] The ADM is not a linear waterfall process.

UNIT 4	Introduction to ADM Techniques – Level 1	Bloom's Taxonomy Level	KLP Reference
	4.3	Explain the recommended template for Architecture Principles.	2_Understanding	{S2} §2.3
	4.4	Explain what makes a good Architecture Principle.	2_Understanding	{S2} §2.4, 2.4.1
	4.5	Briefly explain business scenarios.	2_Understanding	G176 §1
	4.6	Explain the purpose of gap analysis.	2_Understanding	{S2} §5.1
	4.7	Briefly explain interoperability and how it is used.	2_Understanding	{S0} §3.9
	4.8	Explain Business Transformation Readiness Assessment and where it can be used in the ADM.	2_Understanding	{S2} §8.1
	4.9	Briefly explain the characteristics of architecture risk management and where it is used within the TOGAF ADM.	2_Understanding	{S2} §9.1

3.1.5 Unit 5 – Introduction to Applying the ADM

UNIT 5	Introduction to Applying the ADM – Level 1	Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to introduce the Candidate to the guidance available to support application of the ADM, including use of iteration, partitioning, Agile delivery, and application in a Digital enterprise.		
Learning Outcomes		The Candidate is able to …		
	5.1	Describe where guidance on how to apply the TOGAF Standard is provided.	1_Remembering	{S0} §2.2
	5.2	Explain how iteration within the ADM enables concurrent operation of multiple ADM phases.	2_Understanding	{S3} §2.1
	5.3	List the three levels of the Architecture Landscape.	2_Understanding	{S3} §3.2
	5.4	Briefly explain how partitioning helps simplify the development of an Enterprise Architecture.	2_Understanding	{S3} §4.1
	5.5	List the four purposes that help to frame the planning horizon and breadth and depth of the Architecture Project.	2_Understanding	G186 §3.2.2
	5.6	Briefly explain how the TOGAF Standard can be applied to support the Digital enterprise.	2_Understanding	G217 §2.1

3.1.6 Unit 6 – Introduction to Architecture Governance

UNIT 6	Introduction to Architecture Governance – Level 1		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand how Architecture Governance contributes to the architecture development.			
Learning Outcomes		The Candidate is able to …		
	6.1	Briefly explain the concept of Architecture Governance.	2_Understanding	{S5} §3.1.1, 3.1.2.1 G184 §6.1, 6.1.1
	6.2	Explain why Architecture Governance is beneficial.	2_Understanding	{S5} §3.1.2 G184 §6.1.1
	6.3	Briefly explain the role of an Architecture Board and its responsibilities.	2_Understanding	{S5} §4.1, 4.2 G184 §6.2
	6.4	Briefly explain the role of Architecture Contracts.	2_Understanding	{S5} §5.1
	6.5	Briefly explain the need for Architecture Compliance.	2_Understanding	{S5} §6.1

3.1.7 Unit 7 – Architecture Content

UNIT 7	Architecture Content		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand which outputs can be produced while executing the ADM.			
Learning Outcomes		The Candidate is able to …		
	7.1	Define and explain the following key concepts: stakeholders, concerns, architecture views, architecture viewpoints, and their relationships.	2_Understanding	{S4} §3.1
	7.2	Explain what building blocks are and their use in the ADM.	2_Understanding	{S4} §5.2.2, 5.3.2
	7.3	Briefly describe the TOGAF Standard deliverables created and consumed in different TOGAF ADM phases:	2_Remembering	{S4}
		Architecture Contract		{S4} §4.2.2
		Architecture Definition Document		{S4} §4.2.3
		Architecture Principles		{S4} §4.2.4
		Architecture Requirements Specification		{S4} §4.2.6
		Architecture Roadmap		{S4} §4.2.7

UNIT 7	Architecture Content	Bloom's Taxonomy Level	KLP Reference
	Architecture Vision		{S4} §4.2.8
	Business Principles, Business Goals, and Business Drivers		{S4} §4.2.9
	Capability Assessment		{S4} §4.2.10
	Change Request		{S4} §4.2.11
	Communications Plan		{S4} §4.2.12
	Compliance Assessment		{S4} §4.2.13
	Implementation and Migration Plan		{S4} §4.2.14
	Implementation Governance Model		{S4} §4.2.15
	Request for Architecture Work		{S4} §4.2.17
	Requirements Impact Assessment		{S4} §4.2.18
	Statement of Architecture Work		{S4} §4.2.20

3.1.8   Unit 8 – TOGAF Certification Program

UNIT 8	TOGAF Certification Program		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand the TOGAF Certification Program.			
Learning Outcomes		The Candidate is able to …		
	8.1	Explain the TOGAF Certification Program, and distinguish between the levels for certification.		None

3.2   Level 2 Syllabus

To achieve certification at Level 2, Candidates must complete all Learning Units defined in Section 3.1, as well as this section, and successfully pass the corresponding Indicator of Compliance for Level 2 certification (see Section 5).

3.2.1   Unit 1 – The Context for Enterprise Architecture

UNIT 1	The Context for Enterprise Architecture		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Enterprise Architecture practitioner understand the context within which they must operate.			
Learning Outcomes		The Candidate is able to …		
	1.1	Explain why guiding effective change is the purpose of Enterprise Architecture.	2_Understanding	G186 §3.1

UNIT 1	The Context for Enterprise Architecture		Bloom's Taxonomy Level	KLP Reference
	1.2	Explain what an Enterprise Architecture looks like.	2_Understanding	G186 §3.2.3
	1.3	Explain what an Architecture Capability is.	2_Understanding	{S0} §3.13 G184 §3.3
	1.4	Explain the role of Architecture Governance and the role of an Enterprise Architect.	2_Understanding	G186 §15.1
	1.5	Explain Architecture Compliance, levels of conformance, reviews, and the role of the architect.[3]	2_Understanding	{S5} §6.1, 6.2, 6.3 G186 §15.2.1, 15.2.2
	1.6	Explain how an architecture enables alignment to organizational objectives using Agile development as an example.	2_Understanding	G186 §12.1, 11.4
	1.7	Explain the need to manage multiple architecture states (e.g., candidate, current, transition, target).	2_Understanding	G186 §5.4, 13
	1.8	Briefly explain Enterprise Security Architecture.	2_Understanding	G152 §1
	1.9	Explain how security is a cross-cutting concern.	2_Understanding	G152 §4
	1.10	Explain why it is important to create an environment in which uncertainty of the success of change can be managed to optimize maximum business benefit and minimum business loss.	2_Understanding	G152 §3.1.1
	1.11	Briefly explain the role of the Enterprise Architect and Enterprise Architecture in a Digital enterprise for the four contexts of the DPBoK™ Standard.	2_Understanding	G217 §4.2.1, 4.2.2, 4.2.3, 4.2.4

3.2.2   Unit 2 – Stakeholder Management

UNIT 2	Stakeholder Management — Level 2		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand how to apply Stakeholder Management.			
Learning		The Candidate is able to …		

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[3] Using the TOGAF diagram and the checklists from G186.

UNIT 2	Stakeholder Management — Level 2		Bloom's Taxonomy Level	KLP Reference
Outcomes	2.1	Explain how to identify stakeholders, their concerns, views, and the communication involved.	3_Applying	G186 §3.3.1, B
	2.2	Explain the use of architecture views.	2_Understanding	{S4} §3.2
	2.3	Explain how to manage stakeholders' engagement and requirements.	3_Applying	G186 §6.1.1
	2.4	Explain how to use trade-off to support the architecture development.	3_Applying	{S2} §10.2 G186 §6.1.2, 6.2

3.2.3 Unit 3 – Phase A, the Starting Point

UNIT 3	Phase A, the Starting Point		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand how to execute the Architecture Vision phase and applicable techniques.			
Learning Outcomes		The Candidate is able to …		
	3.1	Explain how to identify the information necessary to execute the Architecture Vision phase and how iteration cycles will provide more information to take into account in order to execute the phase.	3_Applying	{S1} §3.2 G186 §5.2.1
	3.2	Explain how to apply the phase and how it contributes to the architecture development work: • Scope of the Architecture Project • Stakeholders, their concerns, and business requirements • Business goals, business drivers, and constraints	3_Applying	{S1} §3.3 G186 §5.2.1
	3.3	Describe a security-specific architecture design to be carried out that is sufficient.	1_Remembering	G152 §5.2
	3.4	Explain the outputs necessary to proceed with the architecture development work: • Statement of Architecture Work • Architecture Vision • Communications Plan	3_Applying	{S1} §3.4 {S4} §4.2 G186 §5.2.2

3.2.4 Unit 4 – Architecture Development

UNIT 4	Architecture Development		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand how to develop the architecture (Phases B, C, and D) and useful techniques.			
Learning Outcomes		The Candidate is able to …		
	4.1	Explain the steps applicable to all phases.	2_Understanding	G186 §6.3 (including §6.3.1-6.3.6)
	4.2	Explain risk and security considerations during the architecture development.	2_Understanding	G152 §5.3, 5.4, 5.5
	4.3	Explain the information that is relevant to produce outputs valuable to the architecture development: • Business principles • Business goals • Business drivers	3_Applying	{S1} §4.2 {S4} §4.2.9 G186 §5.2.2
	4.4	Explain how to apply Phase B and how it contributes to the architecture development work.	3_Applying	{S1} §4.5 G186 §5.2.2
	4.5	Explain the information that is relevant to Phase C (Data and Applications) to produce outputs relevant to the architecture development.	3_Applying	{S1} §6.2, 7.2 G186 §5.2.2
	4.6	Explain how to apply Phase C and how it contributes to the architecture development work.	3_Applying	{S1} §6.5, 7.5 G186 §5.2.2
	4.7	Explain the information needed in Phase D to produce outputs relevant to the architecture development.	3_Applying	{S1} §8.2 G186 §5.2.2
	4.8	Explain how to apply Phase D and how it contributes to the architecture development work.	3_Applying	{S1} §8.5 G186 §5.2.2
	4.9	Explain the outputs of Phases B, C, and D necessary to proceed with the architecture development work.	3_Applying	{S1} §4.4, 6.4, 7.4, 8.4 G186 §5.2.2

3.2.5 Unit 5 – Implementing the Architecture

UNIT 5	Implementing the Architecture		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand how to implement the architecture (Phases E, F, and G) and useful techniques.			
Learning Outcomes		The Candidate is able to …		
	5.1	Explain the risk and security considerations for the three Phases (E, F, and G).	2_Understanding	G152 §5.6, 5.7, 5.8
	5.2	Describe the steps (Phase E) to create the Implementation and Migration Strategy.	1_Remembering	{S1} §9.3
	5.3	Describe three basic approaches to implementation.	3_Applying	{S1} §9.3.8
	5.4	Explain how to identify and group work packages.	3_Applying	{S1} §9.3.9
	5.5	Explain how to create and document Transition Architectures.	3_Applying	{S1} §9.3.10
	5.6	Explain the impact of the migration projects on the organization and the coordination required.	3_Applying	{S1} §10.3 G186 §5.2.2, 9, 10.4, 10.6
	5.7	Explain why and how business value is assigned to each work package.	2_Understanding	{S1} §10.3.2 G186 §3.4, 9.2.2
	5.8	Describe how to prioritize the migration projects (Phase F).	1_Remembering	{S1} §10.3.4
	5.9	Describe how to confirm the Architecture Roadmap (Phase F).	1_Remembering	{S1} §10.3.5
	5.10	Explain the outputs necessary to proceed with the architecture implementation work.	2_Understanding	{S1} §10.4 G186 §5.2.2
	5.11	Explain the inputs to Phase G.	2_Understanding	{S1} §11.2
	5.12	Explain how the Implementation Governance is executed (Phase G).	3_Applying	{S1} §11.3 G186 §11.4, 15.1.2
	5.13	Explain the outputs necessary to support Architecture Governance.	2_Understanding	{S1} §11.4 G186 §5.2.2
	5.14	Explain how Architecture Contracts are used to communicate with implementers.	3_Applying	{S5} §5.2 G186 §3.3.2

UNIT 5	Implementing the Architecture		Bloom's Taxonomy Level	KLP Reference
	5.15	Explain how to balance opportunity and viability.	2_Understanding	G186 §8.3

3.2.6 Unit 6 – Architecture Change Management

UNIT 6	Architecture Change Management		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand Architecture Change Management and the relation to Stakeholder Management.			
Learning Outcomes		The Candidate is able to …		
	6.1	Explain the inputs triggering change management: • Change Requests	2_Understanding	{S1} §12.2 {S4} 4.2.11 G186 §14
	6.2	Explain the activities necessary for effective change management (Stakeholder Management).	2_Understanding	{S1} §12.3 G186 §14
	6.3	Explain the outputs relevant to proceed.	2_Understanding	{S1} §12.4 G186 §5.2.2

3.2.7 Unit 7 – Requirements Management

UNIT 7	Requirements Management		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand how to apply the process of managing architecture requirements and the relation to Stakeholder Management.			
Learning Outcomes		The Candidate is able to …		
	7.1	Explain the inputs that can feed the Requirements Management phase.	2_Understanding	{S1} §13.2 G186 §6.1.1, 6.1.2
	7.2	Explain how the Requirements Management steps correspond to ADM phase steps.	2_Understanding	{S1} §13.3
	7.3	Explain the purpose of the outputs of Requirements Management.	2_Understanding	{S1} §13.4 {S4} §4.2.6, 4.2.18

3.2.8 Unit 8 – Supporting the ADM Work

UNIT 8	Supporting the ADM Work		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand which supporting means can be used while executing the ADM.			
Learning Outcomes		The Candidate is able to …		
	8.1	Describe how The Open Group TOGAF Library can be used to support the practitioner's work.	2_Understanding	{S0} §2
	8.2	Briefly explain the business scenario technique.	2_Understanding	G176 §1, 3.1
	8.3	Explain the purpose of compliance assessments.	2_Understanding	{S5} §6.3.1 G186 §5.1.5
	8.4	Explain how migration planning techniques are used to review and consolidate the gap analysis results from earlier phases.	2_Understanding	{S2} §6
	8.5	Describe how a repository can be structured using the TOGAF repository as an example: - Architecture Landscape - Reference Library - Standards Library - Governance Repository - Architecture Requirements Repository - Solutions Landscape - Enterprise Repository	1_Remembering	{S4} §7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8
	8.6	Explain what to expect in a well-run Architecture Repository.	2_Understanding	G186 §5.1
	8.7	Explain how the concepts of Architecture Levels are used to organize the Architecture Landscape.	2_Understanding	{S3} §3.1, 3.2, 3.3, 3.4
	8.8	Explain the different levels of architecture that exist in an organization.	2_Understanding	{S3} §3.2
	8.9	Explain at which level an architecture is being developed and the associated level of detail expected.	2_Understanding	{S3} §3.2 G186 §3.2.1
	8.10	Explain the role of Architecture Building Blocks (ABBs) and when they are used.	2_Understanding	{S4} §5.2.3

UNIT 8	Supporting the ADM Work		Bloom's Taxonomy Level	KLP Reference
	8.11	Briefly explain the guidelines and techniques that can be used during the Business Architecture phase: • Applying business capabilities • Applying value streams • Applying the organization map • Applying information mapping • Applying modeling techniques	2_Understanding	{S1} §4.5.3, 4.5.4, 4.5.5, 4.5.6, 4.5.7 G178, G18A, G190, G206, G211
	8.12	Explain the technique of gap analysis and where it can be applied.	2_Understanding	{S2} §5.1, 5.2 G186 §6.3.2
	8.13	Explain how iteration can be used in architecture practices.	2_Understanding	{S3} §2.1, 2.2, 2.3 G186 §5.2, 5.2.3
	8.14	Describe how the Implementation Factor Catalog can be used: • Consolidated Gaps, Solutions, and Dependencies Matrix • Architecture Definition Increments Table	1_Remembering	{S2} §6.1
	8.15	Explain the need for an enterprise metamodel/modeling and how it relates to the ACF.	2_Understanding	{S4} §1.2.1, 1.2.3 G186 A
	8.16	Explain when the ACF needs to be filled throughout the ADM cycles.	2_Understanding	{S4} §1.3 G186 E
	8.17	Describe the usage of an enterprise metamodel using the TOGAF Enterprise Metamodel as an example.	1_Remembering	{S4} §2.2
	8.18	Explain the use of a taxonomy.	2_Understanding	{S4} §2.2
	8.19	Explain how risk assessment can be used.	2_Understanding	{S2} §9.4 G152 §3.2.1, 5.3.4, 5.6.1, 5.7

4. TOGAF Business Architecture Conformance Requirements

4.1 Level 1

To achieve certification at this level, Candidates must complete all Learning Units defined in this section and successfully pass the corresponding Indicator of Compliance for Level 1 certification (see Section 5).

4.1.1 Unit 1 – Introduction and Concepts

UNIT 1	Introduction and Concepts		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to introduce the concepts of Enterprise Architecture and the TOGAF Standard.			
Learning Outcomes		The Candidate is able to …		
	1.1	Describe what an enterprise is.	1_Remembering	{S0} §1.1
	1.2	Explain the purpose of Enterprise Architecture.	2_Understanding	{S0} §1.1 G186 §3.1 G20F §1.2
	1.3	List the business benefits of having an Enterprise Architecture.	1_Remembering	{S0} §1.1 G184 §3.6
	1.4	Explain why the TOGAF Standard is suitable as a framework for Enterprise Architecture.	2_Understanding	{S0} §1.1 G20F §1.2
	1.5	List the four architecture domains that are commonly accepted as subsets of an overall Enterprise Architecture and which the TOGAF Standard supports.	1_Remembering	{S0} §3.3
	1.6	Briefly explain the ADM phases and their purpose.	2_Understanding	{S0} §3.4
	1.7	Briefly describe how architecture abstraction can be used in Enterprise Architecture.	1_Remembering	{S0} §3.7
	1.8	Briefly explain Architecture Principles.	2_Understanding	{S0} §3.8
	1.9	Briefly describe the Enterprise Continuum.	1_Remembering	{S0} §3.10
	1.10	Briefly explain the Architecture Repository.	2_Understanding	{S0} §3.11 G186 §5.1
	1.11	Briefly explain the TOGAF Content Framework and Enterprise Metamodel.	2_Understanding	{S0} §3.12 G184 §8.3

UNIT 1	Introduction and Concepts		Bloom's Taxonomy Level	KLP Reference
	1.12	Briefly explain Architecture Capability.	2_Understanding	{S0} §3.13 G184 §5.1
	1.13	Explain the use of the TOGAF Standard with other frameworks.	2_Understanding	{S0} §3.15 G184 §7, 7.1
	1.14	Briefly explain risk management.	2_Understanding	{S2} §9.1 G152 §3.1.1
	1.15	Briefly explain gap analysis.	2_Understanding	{S2} §5.1 G186 §15.2.3

4.1.2 Unit 2 – Definitions

UNIT 2	Definitions – Level 1		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand relevant terminology.			
Learning Outcomes		The Candidate is able to …		
	2.1	Define the following concepts: Application Architecture Architecture Landscape Architecture Model Artifact Business Architecture Business Model Capability Capability Architecture Data Architecture Deliverable Digital Architecture Gap Metamodel Modeling Requirement Role Segment Architecture Stakeholder Strategic Architecture Technology Architecture Transition Architecture Work Package Note: No definition from this list is required to be taught separately, or be examinable, unless it is used in the learning objective of another unit.	1_Remembering	{S0} §4.3 {S0} §4.15 {S0} §4.17 {S0} §4.23 {S0} §4.27 {S0} §4.31 {S0} §4.33 {S0} §4.34 {S0} §4.39 {S0} §4.40 {S0} §4.41 {S0} §4.47 {S0} §4.54 {S0} §4.56 {S0} §4.64 {S0} §4.66 {S0} §4.67 {S0} §4.75 {S0} §4.77 {S0} §4.80 {S0} §4.83 {S0} §4.88

4.1.3   Unit 3 – Introduction to the ADM

UNIT 3	Introduction to the ADM – Level 1		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand the ADM cycle, briefly explain the objective of each phase in the cycle, and how to adapt and scope the ADM for use.			
Learning Outcomes		The Candidate is able to …		
	3.1	Briefly describe the ADM and its phases.	1_Remembering	{S0} 3.4 {S1} §1.2.2
	3.2	Describe the difference between "draft" and "approved" deliverables.	1_Remembering	{S1} §1.2.2
	3.3	Explain the iterative nature of the ADM.	2_Understanding	{S1} §1.2.1 G186 §5.2.3
	3.4	Explain the need to govern the creation, development, and maintenance of Enterprise Architecture.	2_Understanding	{S1} §1.4 G186 §15.1.1, 15.1.2, 15.2.1
	3.5	Briefly explain how to scope an architecture.	1_Remembering	{S1} §1.5
	3.6	Briefly explain the reasons for considering architecture alternatives, including understanding concerns and trade-off.	2_Understanding	{S1} §1.6, 1.6.1
	3.7	Briefly explain the purpose of the Preliminary Phase.	1_Remembering	G184 §13.1
	3.8	Describe the objectives of the Preliminary Phase.	1_Remembering	{S1} §2.1
	3.9	Briefly explain the purpose of Phase A.	2_Understanding	G186 §5.2.1, 5.2.2 Table 4
	3.10	Explain how iteration within the ADM enables concurrent operation of multiple ADM phases.	2_Understanding	{S3} §2.1
	3.11	Briefly explain the purpose of Phase B.	2_Understanding	G186 §5.2.2 Table 4

4.1.4 Unit 4 – Business Modeling

UNIT 4	Business Modeling		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of the topic of business modeling and how it relates to Enterprise Architecture within the context of the TOGAF Standard.			
Learning Outcomes		The Candidate is able to …		
	4.1	Define what a business model is.	1_Remembering	G18A §2
	4.2	Describe the impact and benefits of business models.	1_Remembering	G18A §3
	4.3	Describe different example representations of business models.	1_Remembering	G18A §2
	4.4	Explain the typical contents of a business model, using the nine building blocks of the business model canvas as an example.	2_Understanding	G18A §7, A
	4.5	Explain the relationship between business models and Business Architecture.	2_Understanding	G18A §4
	4.6	Explain how business models can be used according to the TOGAF Standard.	2_Understanding	G18A §5
	4.7	Explain why business model innovation should be approached in a structured manner.	2_Understanding	G18A §6, 7

4.1.5 Unit 5 – Business Capabilities

UNIT 5	Business Capabilities		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of the concept of business capabilities and how they can be modeled with business capability maps.			
Learning Outcomes		The Candidate is able to …		
	5.1	Describe what a business capability is.	1_Remembering	G211 §1, 2
	5.2	Explain how a business capability can be defined.	2_Understanding	G211 §1, 2.1
	5.3	List the components of a business capability.	1_Remembering	G211 §2.2
	5.4	Describe what a business capability map is.	1_Remembering	G211 §3
	5.5	Explain the capability mapping approach.	2_Understanding	G211 §3.1
	5.6	Explain how a business capability map can be structured.	2_Understanding	G211 §3.2

UNIT 5	Business Capabilities		Bloom's Taxonomy Level	KLP Reference
	5.7	Explain how business capabilities can be mapped to other business perspectives.	2_Understanding	G211 §5
	5.8	Describe the characteristics of heat mapping.	1_Remembering	G211 §5.1
	5.9	Explain how to interpret a heat map.	2_Understanding	G211 §5.1
	5.10	Describe the characteristics and types of relationship mapping.	1_Remembering	G211 §5.2

4.1.6 Unit 6 – Value Streams

UNIT 6	Value Streams		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of value streams and value stream mapping and how they can be applied.			
Learning Outcomes		The Candidate is able to …		
	6.1	Describe what "value" is in the context of Business Architecture.	1_Remembering	G178 §1.1
	6.2	Explain the benefits of value streams and value stream mapping.	2_Understanding	G178 §1.5
	6.3	Briefly describe different approaches to value analysis (including value streams, value chains, value networks, and lean value streams).	1_Remembering	G178 §1.2, A
	6.4	Explain the use of value streams in Business Architecture.	2_Understanding	G178 §1.3
	6.5	Explain the relationship of value streams to other Business Architecture concepts, including process, capability, value stage, value, and stakeholder.	2_Understanding	G178 §1.4
	6.6	Explain how a value stream is defined.	2_Understanding	G178 §2.1
	6.7	Explain how a value stream can be decomposed to a value stream stage.	2_Understanding	G178 §2.2
	6.8	Describe the purpose of mapping capabilities to value stream stages.	1_Remembering	G178 §2.3
	6.9	Explain the approach and guiding principles to creating value streams.	2_Understanding	G178 §3, 3.1
	6.10	Explain with an example how a value stream is decomposed into value stream stages.	2_Understanding	G178 §4.1

UNIT 6	Value Streams		Bloom's Taxonomy Level	KLP Reference
	6.11	Explain with an example how value streams/value stream stages can be mapped to business capabilities.	2_Understanding	G178 §4.2
	6.12	Explain with an example how heat mapping can be applied to a mapping of value streams/value stream stages to business capabilities.	2_Understanding	G178 §4.3

4.1.7 Unit 7 – Business Scenarios

UNIT 7	Business Scenarios		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of the business scenario method and where it is used in the TOGAF ADM.			
Learning Outcomes		The Candidate is able to …		
	7.1	Describe what a TOGAF business scenario is and its purpose.	1_Remembering	G176 §1, 2
	7.2	Describe the benefits of developing a TOGAF business scenario.	1_Remembering	G176 §2
	7.3	Explain where TOGAF business scenarios are used in the TOGAF ADM.	2_Understanding	G176 §1, 6
	7.4	Explain how to develop and validate a TOGAF business scenario.	2_Understanding	G176 §3.1, 3.2, 7
	7.5	Describe where business capabilities and value streams are used in developing a TOGAF business scenario.	1_Remembering	G176 §3.1

4.1.8 Unit 8 – Information Mapping

UNIT 8	Information Mapping		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of the topic of information mapping, how it relates to Enterprise Architecture, and how it supports the TOGAF Standard.			
Learning Outcomes		The Candidate is able to …		
	8.1	Describe what an information map is.	1_Remembering	G190 §2
	8.2	Explain the impact and benefits of information mapping.	2_Understanding	G190 §3

UNIT 8	Information Mapping		Bloom's Taxonomy Level	KLP Reference
	8.3	Explain the relationships of information maps to other Business Architecture concepts.	2_Understanding	G190 §4
	8.4	Explain the relationship of information maps to data models.	2_Understanding	G190 §5
	8.5	Explain how information maps can be used with the TOGAF ADM.	2_Understanding	G190 §6

4.1.9   Unit 9 – Organization Mapping

UNIT 9	Organization Mapping		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of the topic of organization mapping, how it relates to Enterprise Architecture, and how it supports the TOGAF Standard.			
Learning Outcomes		The Candidate is able to …		
	9.1	Describe what an organization map is.	1_Remembering	G206 §2
	9.2	Explain the difference between organization maps and organization charts.	2_Understanding	G206 §3
	9.3	Explain the impact and benefits of organization mapping.	2_Understanding	G206 §4
	9.4	Explain the relationships of organization maps to other domains.	2_Understanding	G206 §5 Table 2
	9.5	Explain how organization maps can be used with the TOGAF ADM.	2_Understanding	G206 §6

4.1.10   Unit 10 – Applying Business Architecture Techniques within the TOGAF ADM

UNIT 10	Applying Business Architecture Techniques within the TOGAF ADM		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to create an understanding of how a Business Architecture can be developed with the TOGAF ADM.			
Learning Outcomes		The Candidate is able to …		
	10.1	Explain how Business Architecture concepts (business capabilities, value streams, and organization maps) are used in creating the Architecture Vision in Phase A.	2_Understanding	{S1} §3.5.2
	10.2	Explain the approach to creating the Business Architecture in Phase B.	2_Understanding	{S1} §4.5.1, 4.5.2

UNIT 10	Applying Business Architecture Techniques within the TOGAF ADM		Bloom's Taxonomy Level	KLP Reference
	10.3	Explain the application of Business Architecture concepts (business capabilities, values streams, organization maps, information maps, and modeling techniques) as applied in Phase B.	2_Understanding	{S1} §4.5.3, 4.5.4, 4.5.5, 4.5.6, 4.5.7

4.1.11 Unit 11 – TOGAF Certification Program

UNIT 11	TOGAF Certification Program		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate understand the TOGAF Certification Program.			
Learning Outcomes		The Candidate is able to …		
	11.1	Explain the TOGAF Certification Program, and distinguish between the levels for certification.		None

5. Indicators of Compliance

The Indicators of Compliance for the Program are The Open Group examinations.

The descriptions of the examinations for each level are maintained by the Certification Authority and displayed on The Open Group website. This includes a description of the examination type (for example, simple multiple-choice, complex scenario, etc.), the number of questions, the duration, supervision requirements, whether an examination is open book, the pass score, the language(s) in which the examination is offered, and the prerequisites for taking the examination.

6.   The Body of Knowledge

This section defines the Body of Knowledge for this certification.

6.1   Documents Comprising the Body of Knowledge

Document Reference	Document Title	KLP Ref.
TOGAF Standard: Fundamental Content	TOGAF® Standard – Introduction and Core Concepts	{S0}
	TOGAF® Standard – Architecture Development Method	{S1}
	TOGAF® Standard – ADM Techniques	{S2}
	TOGAF® Standard – Applying the ADM	{S3}
	TOGAF® Standard – Architecture Content	{S4}
	TOGAF® Standard – Enterprise Architecture Capability and Governance	{S5)
TOGAF Standard: TOGAF Series Guides	TOGAF® Series Guide: The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	G184
	TOGAF® Series Guide: A Practitioners' Approach to Developing Enterprise Architecture Following the TOGAF® ADM	G186
	TOGAF® Series Guide: Enabling Enterprise Agility	G20F
	TOGAF® Series Guide: Business Models	G18A
	TOGAF® Series Guide: Business Capabilities, Version 2	G211
	TOGAF® Series Guide: Business Scenarios	G176
	TOGAF® Series Guide: Information Mapping	G190
	TOGAF® Series Guide: Organization Mapping	G206
	TOGAF® Series Guide: Value Streams	G178
	TOGAF® Series Guide: Integrating Risk and Security within a TOGAF® Enterprise Architecture	G152
	TOGAF® Series Guide: Using the TOGAF Standard in the Digital Enterprise	G217

7. Rationale (Informative)

This section contains informative rationale.

7.1 Bloom's Taxonomy

The terms used to define the depth of learning are drawn from Bloom's Taxonomy.

Bloom's Taxonomy	Level	Cognitive Dimension	Examples of Action Verbs
Lower-order Learning Skills	1	Remembering	Define, list, describe …
	2	Understanding	Explain, summarize …
	3	Applying	Apply, explain, illustrate, interpret …
Higher-order Learning Skills	4	Analyzing	Analyze, classify, distinguish …
	5	Evaluating	Evaluate, justify …
	6	Creating	Construct, design, plan …

7.2 Learning Levels

The learning levels that need to be addressed for this certification range from 1 to 2. The following table shows examples of learning activities for each (Bloom) learning level.

Level	Cognitive Dimension	Examples of Learning Activities
1	Remembering	Lecture, video-clip, examples, illustrations, metaphors, guided reading
2	Understanding	Interactive lecture, Q&A, group discussions, tests
3	Applying	Practice exercises, demonstrations, simple projects, simulations, role play
4	Analyzing	Practical (case-based) exercises, higher-level tests
5	Evaluating	Project, complex case studies, appraisals, debating
6	Creating	Development of plans, complex projects, constructing