The Open Group® Certification for People

TOGAF® Enterprise Architecture Practitioner Bridge Conformance Requirements

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The Open Group® Certification for People:
TOGAF® Enterprise Architecture Practitioner Bridge Conformance Requirements

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1.   Introduction

This document – The Open Group® Certification for People: TOGAF® Enterprise Architecture Practitioner Bridge Conformance Requirements – 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.

1.1   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 training course provider, 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 objective, 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 learning equivalence.

2. Conformance Terminology

The Conformance Requirements are specified as sets of Learning Units. To achieve certification, Candidates are required to complete the applicable Learning Units and successfully pass the corresponding Indicator of Compliance (see Section 4).

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.

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**	….		
		The Enterprise Architecture practitioner is able to:		
(B)		1.1	(C)	(D)
		1.2		
		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 6.1).

(D)   KLP Reference: A reference back to the Key Learning Point within the Body of Knowledge (see Section 5). **This is required for traceability.**

3. Conformance Requirements

To achieve this certification, Candidates must complete all Learning Units defined in this section and successfully pass the corresponding Indicator of Compliance (see Section 4).

3.1 Unit 1 – Key Changes in the TOGAF Standard

UNIT 1	Key Changes in the TOGAF Standard		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to introduce this version of the TOGAF Standard, including how it is organized to support its use, and key changes.			
Learning Outcomes		The Enterprise Architecture practitioner is able to …		
	1.1	Briefly describe the organization of the document set for this version of the TOGAF framework.	1_Remembering	{S0} §2.1
	1.2	Explain the difference between the Fundamental Content and the TOGAF Series Guides.	2_Understanding	{S0} §2.1, 2.2
	1.3	Describe how the TOGAF Fundamental Content and the TOGAF Series Guides together form the TOGAF Standard.	1_Remembering	{S0} §2.2
	1.4	Explain how the structure of the TOGAF Standard reflects the structure and content of an Architecture Capability within an enterprise.	2_Understanding	{S0} §2.2
	1.5	Briefly describe the topics covered by the TOGAF Series Guides in the Body of Knowledge and their applicability.	1_Remembering	{S0} §2.2 G152, G176, G178, G184, G186, G18A, G190, G206, G20F, G210, G211, G212, G217
	1.6	Briefly describe the guidance, and learning path, available to the person tasked to lead the effort to establish or evolve an Enterprise Architecture Capability.	1_Remembering	G184 §1
	1.7	Briefly describe the role of the TOGAF Library.	1_Remembering	{S0} §2.3
	1.8	Explain how Enterprise Architecture services can be provided through a service delivery model.	2_Understanding	{S0} §3.5

UNIT 1		Key Changes in the TOGAF Standard	Bloom's Taxonomy Level	KLP Reference
	1.9	Explain the concept and method of architecture alternatives and trade-off.	2_Understanding	{S2} §10

3.2   Unit 2 – Introducing the Context for Enterprise Architecture

UNIT 2		Introducing 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 for Agile and Digital Transformation.			
Learning Outcomes		The Enterprise Architecture practitioner is able to …		
	2.1	Explain why guiding effective change is the purpose of Enterprise Architecture.	2_Understanding	G186 §3.1
	2.2	Explain what an Enterprise Architecture looks like.	2_Understanding	G186 §3.2.3
	2.3	Explain the role of Architecture Governance, and the role of an Enterprise Architect.	2_Understanding	G186 §15.1
	2.4	Explain the iterative nature of the Architecture Development Method (ADM).[1]	2_Understanding	{S1} §1.2.1 G186 §5.2, 5.2.3
	2.5	List the four contexts of organizational evolution towards a Digital enterprise as identified by the DPBoK™ Standard.	1_Remembering	G217 §4.2

3.3   Unit 3 – Enterprise Architecture and the Practitioner Role

UNIT 3		Enterprise Architecture and the Practitioner Role	Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Enterprise Architecture practitioner understand the guidance available to support application of the ADM, including Agile delivery, and application in a Digital enterprise.			
Learning Outcomes		The Enterprise Architecture practitioner is able to …		
	3.1	Explain how an architecture enables alignment to organizational objectives using Agile development as an example.	2_Understanding	G186 §12.1, 11.4

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[1] 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		Enterprise Architecture and the Practitioner Role	Bloom's Taxonomy Level	KLP Reference
	3.2	Briefly explain how the TOGAF Standard can be applied to support the Digital enterprise.	2_Understanding	G217 §2.1
	3.3	Briefly explain the role of the Enterprise Architect in a Digital enterprise for the four contexts of the DPBoK Standard.	2_Understanding	G217 §4.2

3.4　Unit 4 – Applying TOGAF Concepts in the Context for Enterprise Architecture

UNIT 4		Applying TOGAF Concepts in 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 learn how to apply the TOGAF concepts with a better understanding of the context within which they must operate.		
Learning Outcomes		The Enterprise Architecture practitioner is able to …		
	4.1	Identify the context within which they must operate applying the following: • Why guiding effective change is the purpose of Enterprise Architecture • What an Enterprise Architecture looks like • What an Architecture Capability is • The need to manage multiple architecture states (e.g., candidate, current, transition, target) • Enterprise Security Architecture and how it is a cross-cutting concern • 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 • The role of the Enterprise Architect and Enterprise Architecture in a Digital enterprise for the four contexts of the DPBoK Standard	4_Analyzing	{S0} §3.13 {S5} §6.1 G152 §1, 3.1.1, 4 G184 §3.3 G186 §3.1, 3.2.3, 5.4, 11.4, 12.1, 13, 15.1, 15.2.1, 15.2.2 G217 §4.2.1, 4.2.2, 4.2.3, 4.2.4

3.5 Unit 5 – Stakeholder Management

UNIT 5	Stakeholder Management	Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Enterprise Architecture practitioner learn how to apply the Stakeholder Management technique.		
Learning Outcomes	5.1 The Enterprise Architecture practitioner is able to apply Stakeholder Management using the following: • How to identify stakeholders, their concerns, views, and the communication involved • The use of Architecture Views • How to manage stakeholders' engagement and requirements • How to use trade-off to support the Architecture Development	3_Applying	{S2} §10.2 {S4} §3.2 G186 §3.3.1, 6.1.1, 6.1.2, 6.2, B

3.6 Unit 6 – Phase A, the Starting Point

UNIT 6	Phase A, the Starting Point	Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Enterprise Architecture practitioner learn how to execute Phase A and applicable techniques.		

Learning Outcomes	6.1 The Enterprise Architecture practitioner is able to apply the following to execute the Architecture Vision phase:
	• 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
	• How to execute the phase and how it contributes to the Architecture Development work:
	  — Scope of the Architecture Project
	  — Stakeholders, their concerns, and business requirements
	• How to describe a security-specific architecture design to be carried out that is sufficient
	• The outputs necessary to proceed with the Architecture Development work:
	  — Statement of Architecture
		3_Applying	{S1} §3.2, 3.3, 3.4
			{S4} §4.2
			G152 §5.2
			G186 §5.2.1, 5.2.2

UNIT 6	Phase A, the Starting Point		Bloom's Taxonomy Level	KLP Reference
		Work — Architecture Vision — Communications Plan		

3.7   Unit 7 – Architecture Development

UNIT 7	Architecture Development		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Enterprise Architecture practitioner learn how to develop an architecture (Phase B, C, D), and how to apply techniques applicable to Architecture Development.			

Learning Outcomes	7.1	The Enterprise Architecture practitioner is able to develop the architecture applying the following:
		• The steps applicable to all phases
		• Risk and security considerations during the Architecture Development
		• The information that is relevant to produce outputs valuable to the Architecture Development:
		  — Business principles
		  — Business goals
		  — Business drivers
		• How to apply Phase B and how it contributes to the Architecture Development work
		• The information that is relevant to Phase C (Data and Application) to produce outputs relevant to the Architecture Development
		• How to apply Phase C and how it contributes to the Architecture Development work
		• The information needed in Phase D to produce outputs relevant to the Architecture Development
		• How to apply Phase D and how it contributes to the Architecture Development work
		• The outputs of Phases B, C, and D necessary to proceed with the Architecture Development work
			3_Applying	{S1} §4.5, 4.3, 4.4, 6.2, 6.4, 6.5, 7.2, 7.4, 7.5, 8.2, 8.4, 8.5
				{S4} §4.2.9
				G152 §5.3 5.4, 5.5
				G186 §5.2.2, 6.3 (including §6.3.1-6.3.6)

3.8   Unit 8 – Implementing the Architecture

UNIT 8	Implementing the Architecture		Bloom's Taxonomy Level	KLP Reference
Purpose	The purpose of this Learning Unit is to help the Candidate learn how to implement an architecture (Phases E, F, G) and how to apply techniques applicable to architecture implementation.			
Learning Outcomes	8.1	The Enterprise Architecture practitioner is able to implement the architecture using the following: • The risk and security considerations for the three phases (E, F and G) • The steps (Phase E) to create the Implementation and Migration Strategy • Three basic approaches to implementation • How to identify and group work packages • How to create and document Transition Architectures • The impact of the migration projects on the organization and the coordination required • Why and how business value is assigned to each work package • How to prioritize the migration projects (Phase F) • How to confirm the Architecture Roadmap (Phase F) • The outputs necessary to proceed with the Architecture implementation work • The inputs to the phase (G) • How Implementation Governance is executed (Phase G) • The outputs necessary to support Architecture Governance • How Architecture Contracts are used to communicate with Implementers • How to balance opportunity and viability	3_Applying	{S1} §9.3, 9.3.8, 9.3.9, 9.3.10, 10.3, 10.3.2, 10.3.4, 10.3.5, 10.4, 11.2, 11.3, 11.4 {S5} §5.2 G152 §5.6 5.7, 5.8 G186 §3.3.2, 3.4, 5.2.2, 8.3, 9, 9.2.2, 10.4, 10.6, 11.4, 15.1.2

3.9 Unit 9 – Supporting the ADM Work

UNIT 9	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 to use while executing the ADM.			
Learning Outcomes	9.1	The Enterprise Architecture practitioner is able to choose applicable supporting means to execute the ADM applying the following: • Use of The Open Group TOGAF Library to support the practitioner's work • The Business Scenarios technique • The purpose of compliance assessments • How migration planning techniques are used to review and consolidate the Gap Analysis results from earlier phases • How a repository can be structured using the TOGAF repository and what to expect in a well-run Architecture Repository • How the concept of Architecture Levels is used to organize the Architecture Landscape • The different levels of architecture that exist in an organization • At which level an architecture is being developed and the associated level of detail expected • The role of Architecture Building Blocks (ABBs) and when they are used	3_Applying	{S0} §2 {S2} §6 {S3} §3.1, 3.2, 3.3, 3.4 {S4} §5.2.3, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8 {S5} §6.3.1 G176 §1, 7, 9 G186 §3.2.1, 5.1, 5.1.5

4.   Indicator of Compliance

The Indicator of Compliance for this certification is the TOGAF Enterprise Architecture Practitioner Bridge examination.

The description of the examination is 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 pre-requisites for taking the examination.

5.   Body of Knowledge

This section defines the Body of Knowledge for this certification. It provides the list of documents from which Key Learning Points are derived, together with a Document Reference (usually the document number and a chapter/section reference).

5.1   Documents Comprising the Body of Knowledge

The Body of Knowledge for this certification is based on the following documents:

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
	TOGAF® Series Guide: Digital Technology Adoption: A Guide to Readiness Assessment and Roadmap Development	G212

6. Rationale (Informative)

This section contains informative rationale.

6.1 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 …

6.2 Learning Levels

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