COURSEWARE

COURSEWARE BASED ON THE TOGAF® EA – FOUNDATION

Van Haren PUBLISHING

Courseware based on
the TOGAF® EA – Foundation
Courseware

Colophon

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Publisher about the Courseware

The Courseware was created by experts from the industry who served as the author(s) for this publication. The input for the material is based on existing publications and the experience and expertise of the author(s). The material has been revised by trainers who also have experience working with the material. Close attention was also paid to the key learning points to ensure what needs to be mastered.

The objective of the courseware is to provide maximum support to the trainer and to the student, during his or her training. The material has a modular structure and according to the author(s) has the highest success rate should the student opt for examination. The Courseware is also accredited for this reason, wherever applicable.

In order to satisfy the requirements for accreditation the material must meet certain quality standards. The structure, the use of certain terms, diagrams and references are all part of this accreditation. Additionally, the material must be made available to each student in order to obtain full accreditation. To optimally support the trainer and the participant of the training assignments, practice exams and results are provided with the material.

Direct reference to advised literature is also regularly covered in the sheets so that students can find additional information concerning a particular topic. The decision to leave out notes pages from the Courseware was to encourage students to take notes throughout the material.

Although the courseware is complete, the possibility that the trainer deviates from the structure of the sheets or chooses to not refer to all the sheets or commands does exist. The student always has the possibility to cover these topics and go through them on their own time. It is recommended to follow the structure of the courseware and publications for maximum exam preparation.

The courseware and the recommended literature are the perfect combination to learn and understand the theory.

-- Van Haren Publishing

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Van Haren Publishing (VHP) specializes in titles on Best Practices, methods and standards within four domains:

- IT and IT Management
- Architecture (Enterprise and IT)
- Business Management and
- Project Management

Van Haren Publishing is also publishing on behalf of leading organizations and companies: ASLBiSL Foundation, BRMI, CA, Centre Henri Tudor, Gaming Works, IACCM, IAOP, IFDC, Innovation Value Institute, IPMA-NL, ITSqc, NAF, KNVI, PMI-NL, PON, The Open Group, The SOX Institute.

Topics are (per domain):

IT and IT Management

ABC of ICT
ASL®
CATS CM®
CMMI®
COBIT®
e-CF
ISO/IEC 20000
ISO/IEC 27001/27002
ISPL
IT4IT®
IT-CMF™
IT Service CMM
ITIL®
MOF
MSF
SABSA
SAF
SIAM™
TRIM
VeriSM™

Enterprise Architecture

ArchiMate®
GEA®
Novius Architectuur
Methode
TOGAF®

Business Management

BABOK® Guide
BiSL® and BiSL® Next
BRMBOK™
BTF
EFQM
eSCM
IACCM
ISA-95
ISO 9000/9001
OPBOK
SixSigma
SOX
SqEME®

Project Management

A4-Projectmanagement
DSDM/Atern
ICB / NCB
ISO 21500
MINCE®
M_o_R®
MSP®
P3O®
PMBOK® Guide
Praxis®
PRINCE2®

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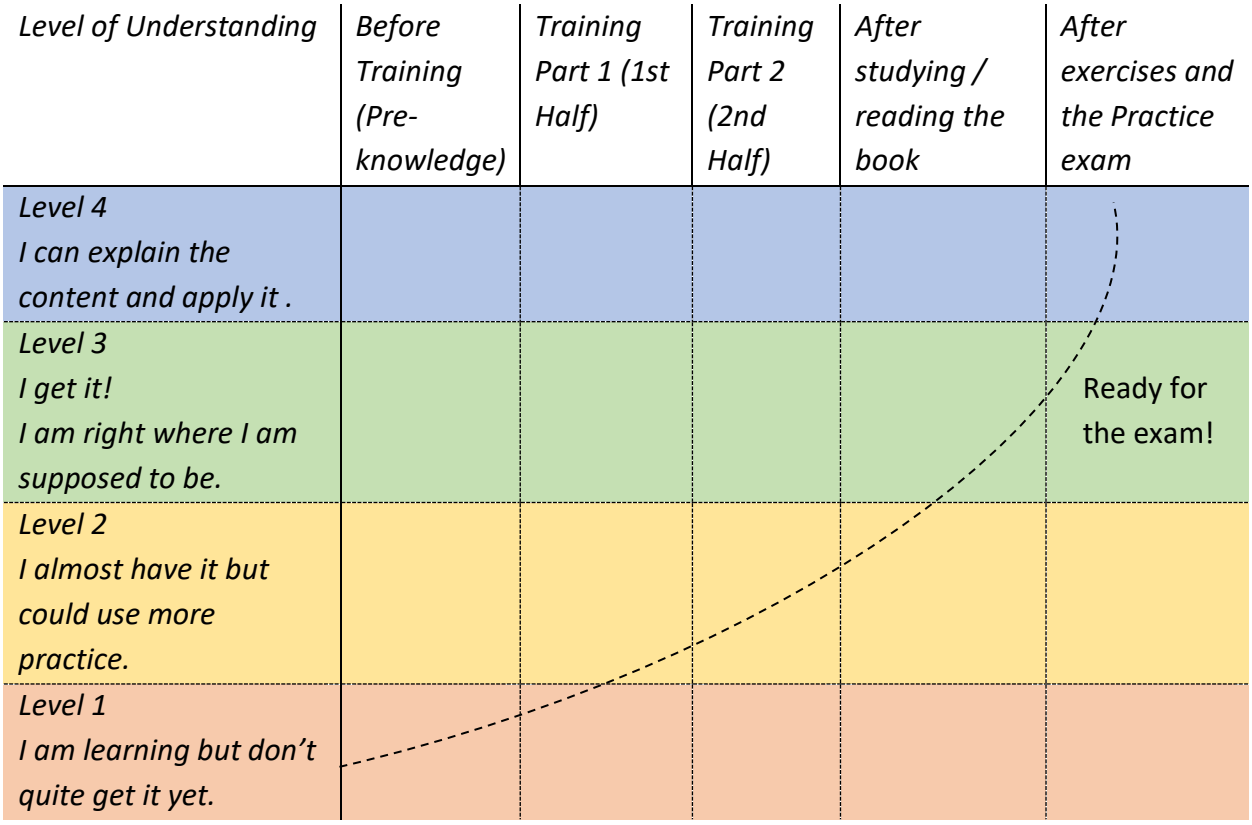
Self-Reflection of understanding Diagram

'*What you do not measure, you cannot control*.'' – Tom Peters

Fill in this diagram to self-evaluate your understanding of the material. This is an evaluation of how well you know the material and how well you understand it. In order to pass the exam successfully you should be aiming to reach the higher end of Level 3. If you really want to become a pro, then you should be aiming for Level 4. Your overall level of understanding will naturally follow the learning curve. So, it's important to keep track of where you are at each point of the training and address any areas of difficulty.

Based on where you are within the Self-Reflection of Understanding diagram you can evaluate the progress of your own training.



(Self-Reflection of Understanding Diagram)

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Write down the problem areas that you are still having difficulty with so that you can consolidate them yourself, or with your trainer. After you have had a look at these, then you should evaluate to see if you now have a better understanding of where you actually are on the learning curve.

Troubleshooting

Problem areas:	*Topic:*
Part 1	
Part 2	
You have gone through the book and studied.	
You have answered the questions and done the practice exam.	

Timetable

This is a schedule for a two day course – approximate timings:

Day 1	Day 2
8:00 Module 00	8:00 Module 09
8:30 Module 01	8:30 Module 10
9:00 Module 02	9:00 Module 11
10:00 Module 03	10:00 Module 12
11:00 Module 04	11:00 Module 13
12:00 Lunch	*12:00 Lunch*
13:30 Module 05	13:30 Module 14
15:00 Module 06	15:00 Module 15
16:30 Module 07	16:30 Module 16
18:00 End of day	18:00 End of day

This is a schedule for a three day course – approximate timings:

Day 1	Day 2	Day 3
8:00 Module 00	8:00 Module 06	8:00 Module 12
8:30 Module 01	9:30 Module 07	9:30 Module 13
10:00 Module 02	*11:00 Lunch*	*11:00 Lunch*
11:30 Lunch	12:30 Module 08	12:30 Module 14
13:00 Module 03	14:00 Module 09	14:00 Module 15
14:30 Module 04	15:00 Module 10	15:00 Module 16
16:00 Module 05	16:00 Module 11	16:00 End of day
17:30 End of day	17:00 End of day	

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This is a schedule for a four day course – approximate timings:

Day 1	**Day 3**
8:00 Module 00	8:00 Module 11
8: 30 Module 01	10:00 Module 12
10:15 Module 02	*11:00 Lunch*
12:00 Lunch	12:30 Module 13
13:30 Module 04	14:00 Module 14
15:15 Module 05	15:30 Module 15
17:30 End of day	17:00 End of day

Day 2	**Day 4**
8:00 Module 06	8:00 Module 16
10:00 Module 07	9:30 Revision/Study
11:00 Lunch	*11:00 Lunch*
12:30 Module 08	12:30 Case Study end
15:30 Module 10	17:00 End of day
17:00 End of day	

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- 00 - Course Information

01 - Overview

02 - Implementation Support Techniques

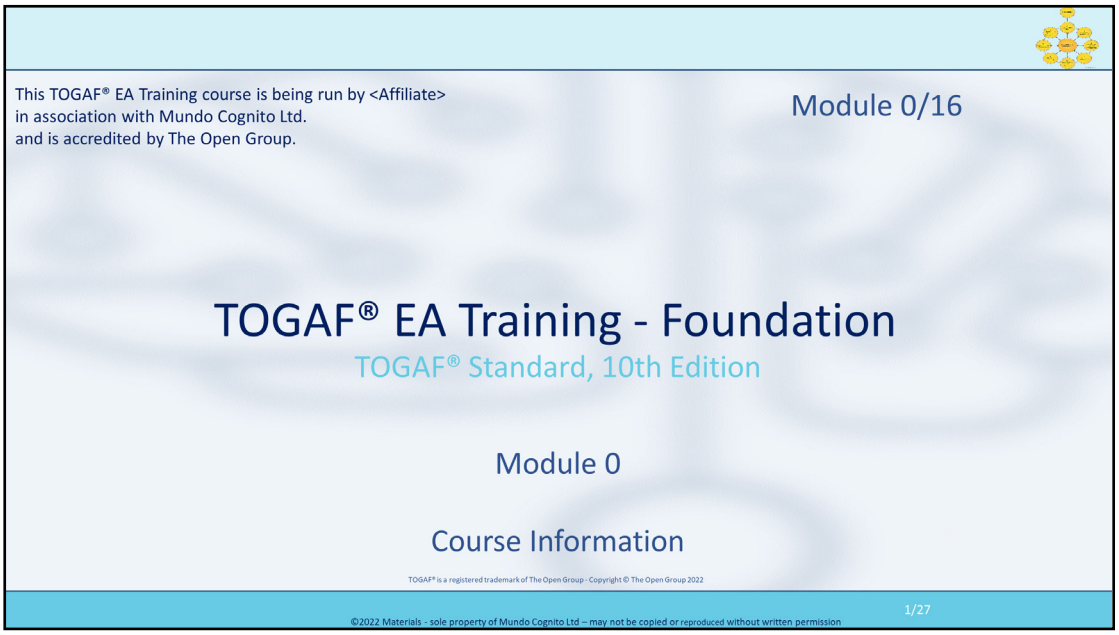
03 - Introduction to the ADM - Techniques

04 - An Introduction to the ADM

05 – Applying ADM

06 - Architecture Governance

07 – Architecture Content



Notes:

This slides shows a start-off module slide. Kicking-off each new module.

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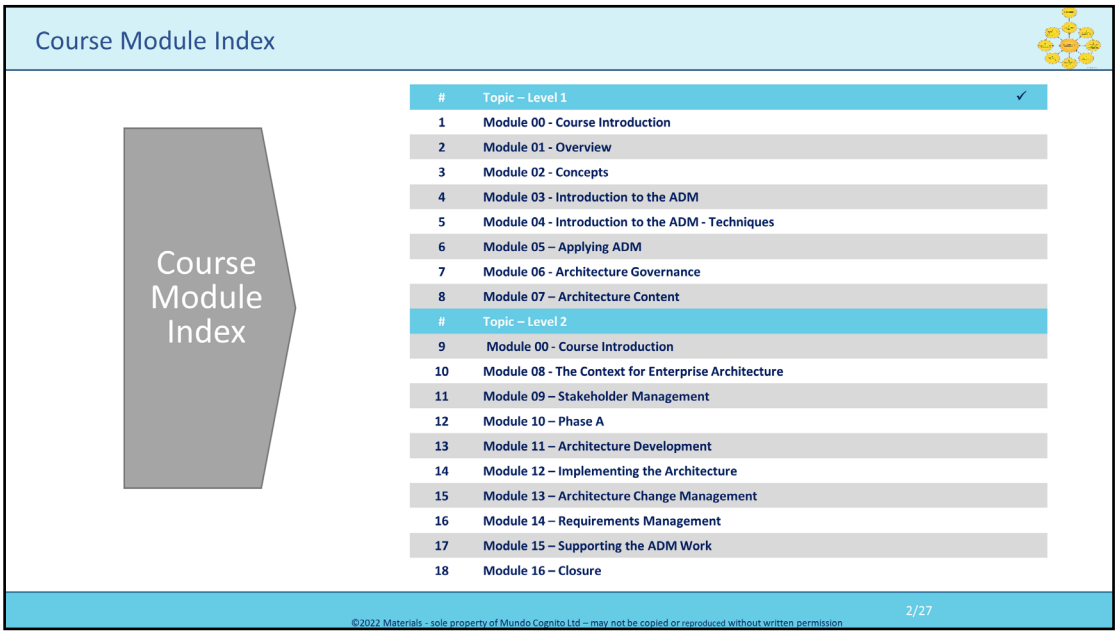

Notes:

Here you can see all the modules that are in the course. The lowest checkmark indicates the topic that is currently being addressed.
All the checkmarks modules above will have already been previously discussed.

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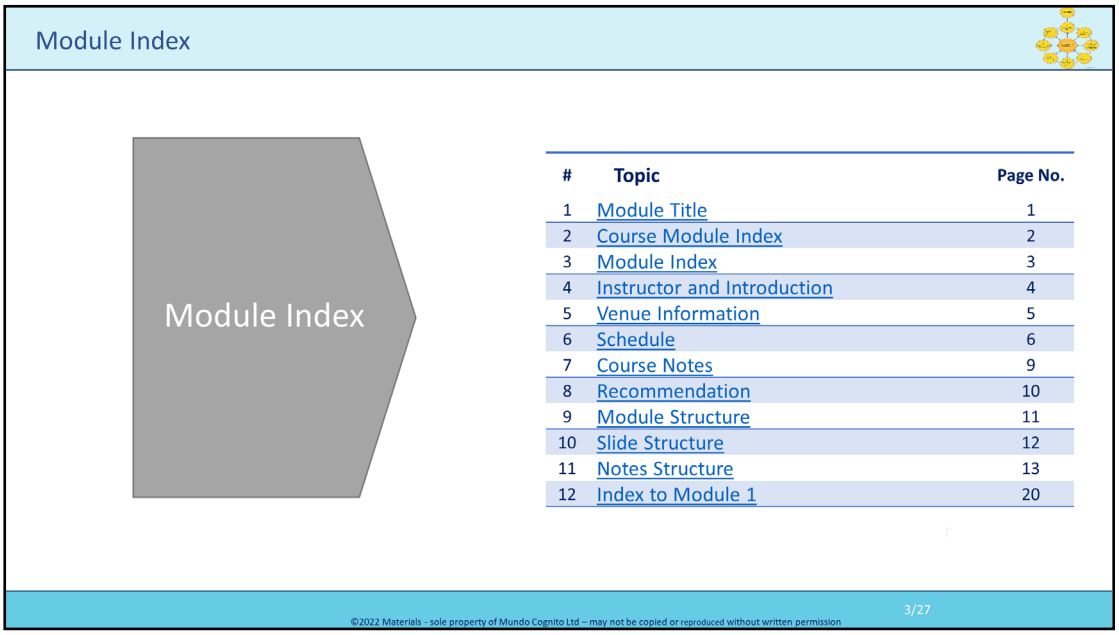

Notes:

This slides shows the submodules within this module. Every module will have a slide that will show what submodules are included.

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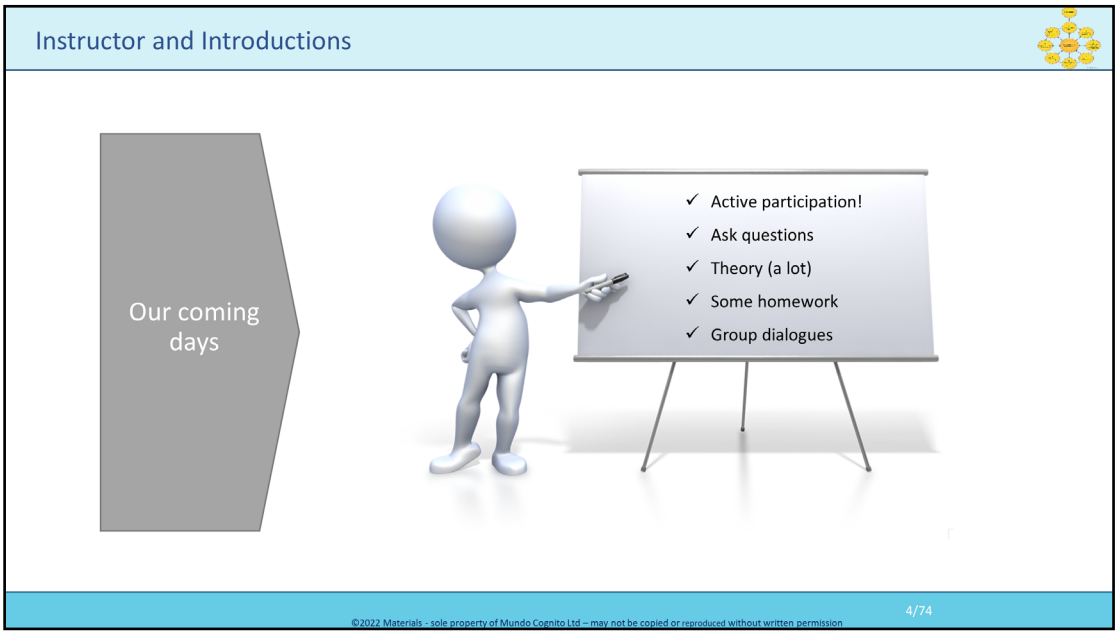

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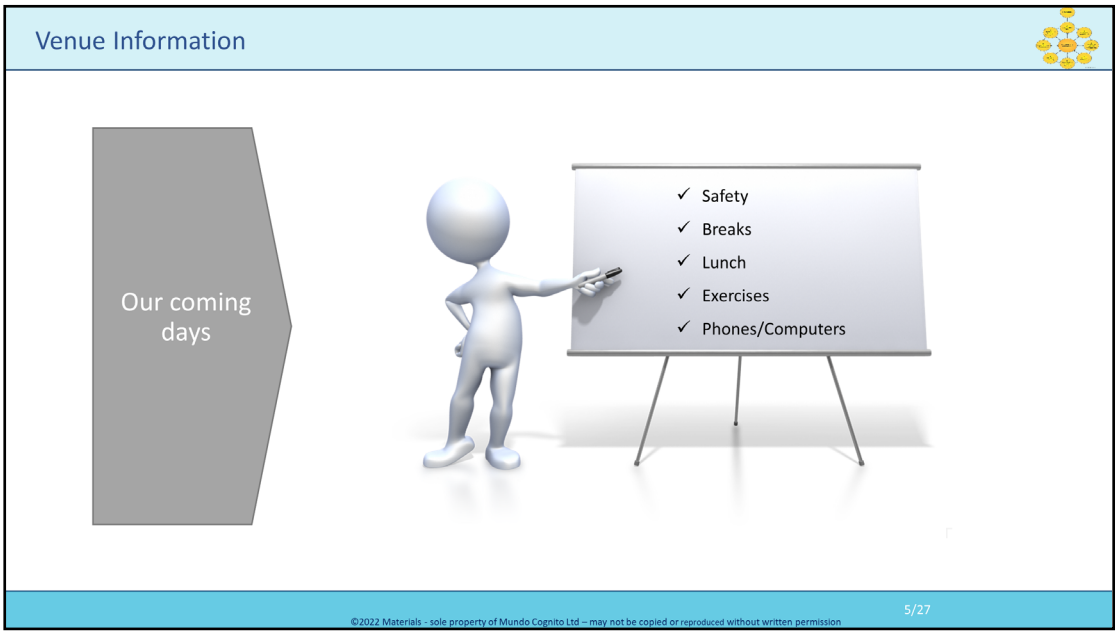

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Notes:

Level=1 : L.O.= 1.10c : Briefly explain what an Architecture Capability is.
See : TOGAF® Series Guide: A Practitioners' Approach to Developing Enterprise Architecture Following the TOGAF® ADM : Page 9 : §3.3

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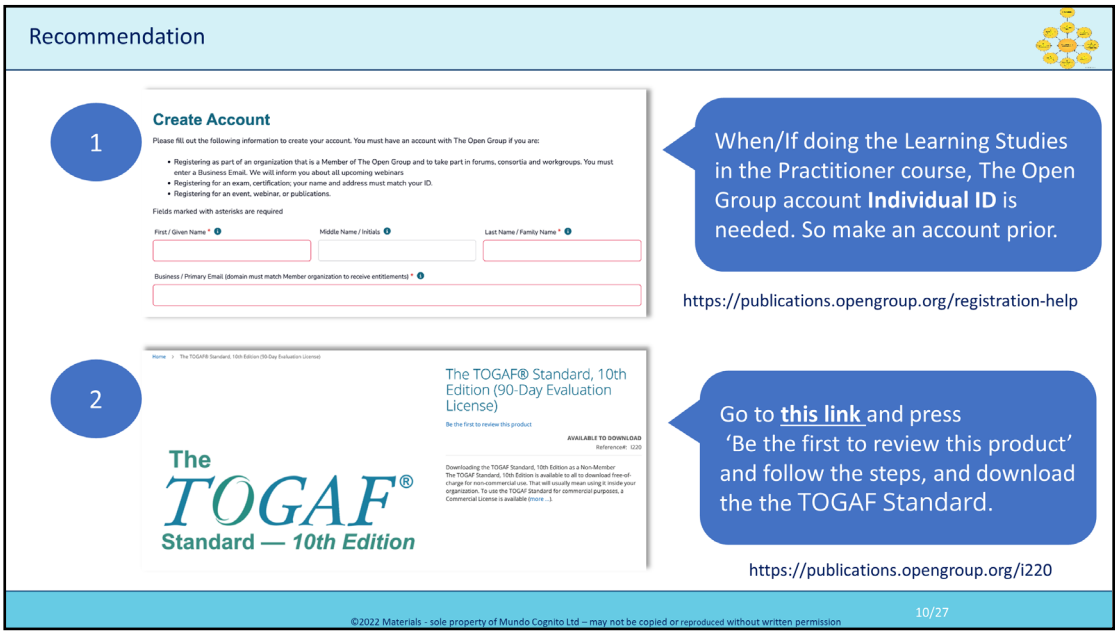

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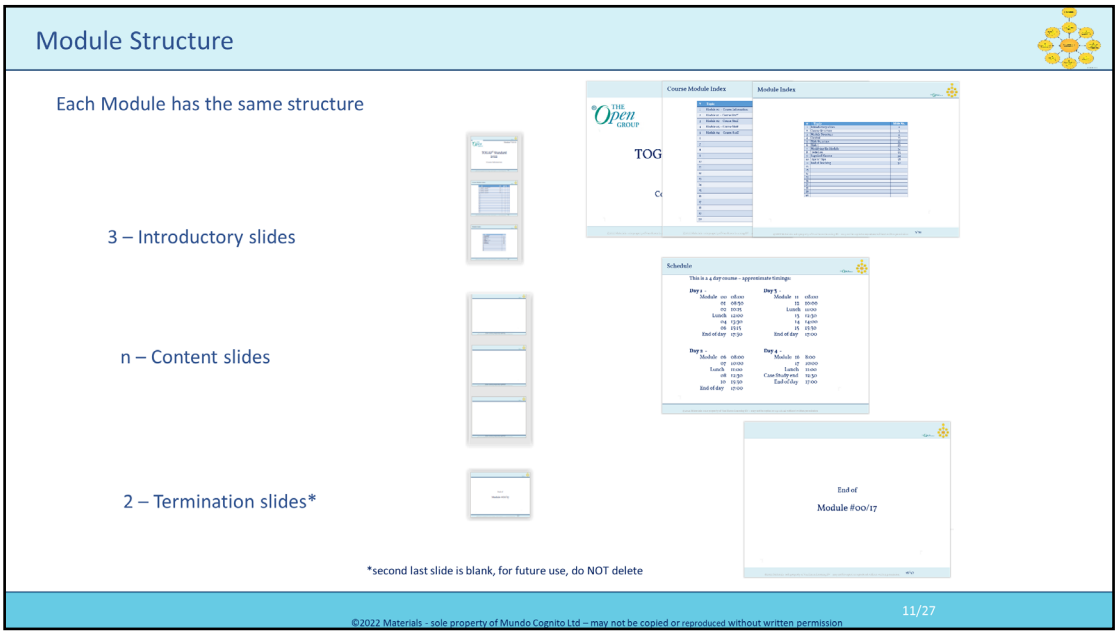

Notes:

This slide shows (especially for the trainer) how they can navigate the content during the training.

But also how the training has been constructed in a modular fashion.

Additionally, in the presentation there is the core content. Additional content such as examples, (mini) case-studies, multiple-choice questions and open questions are included for the delegates.
These are also available in the presentation but are not included as standard.

This is done so that the trainer can determine when to leverage these additional materials.

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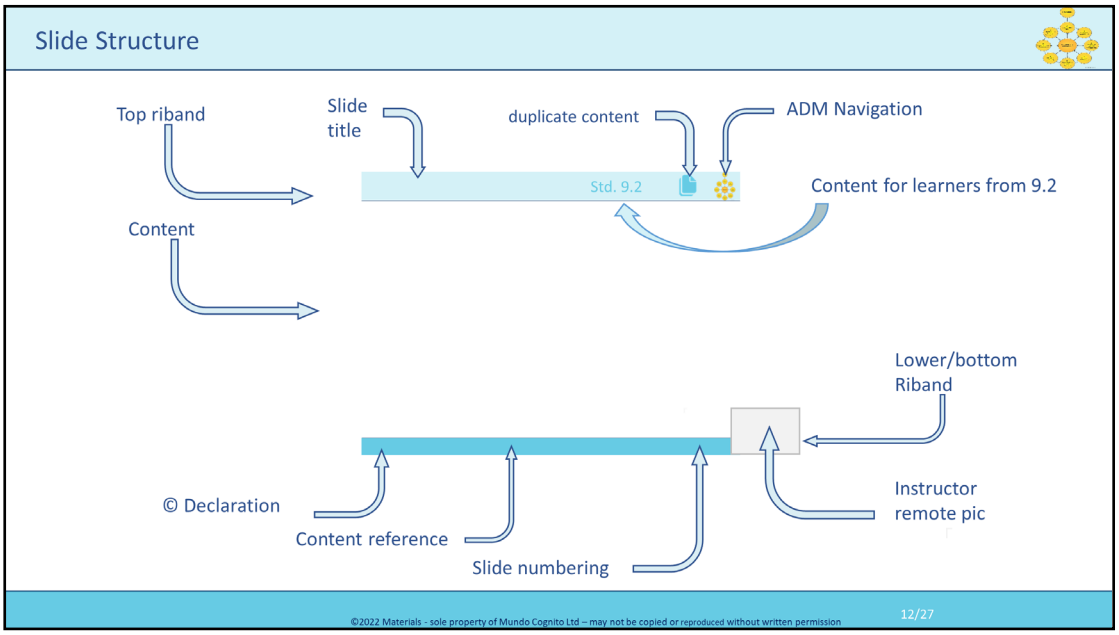

Notes:

This slide illustrates the various functions of a slide.

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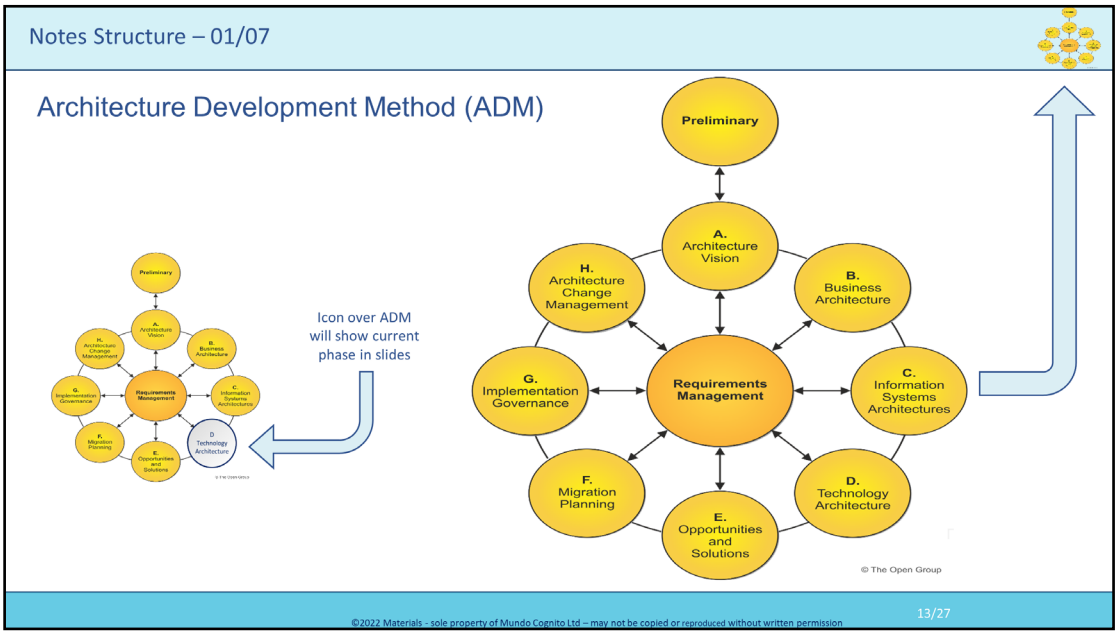

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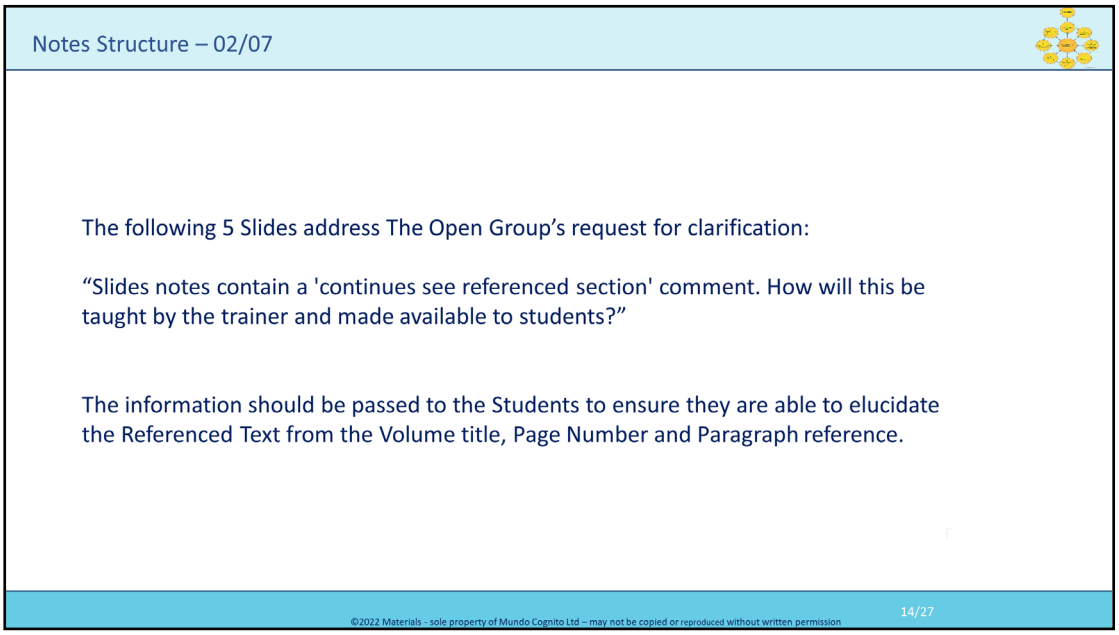

Notes:

The courseware presents one slide per page, including any associated notes.

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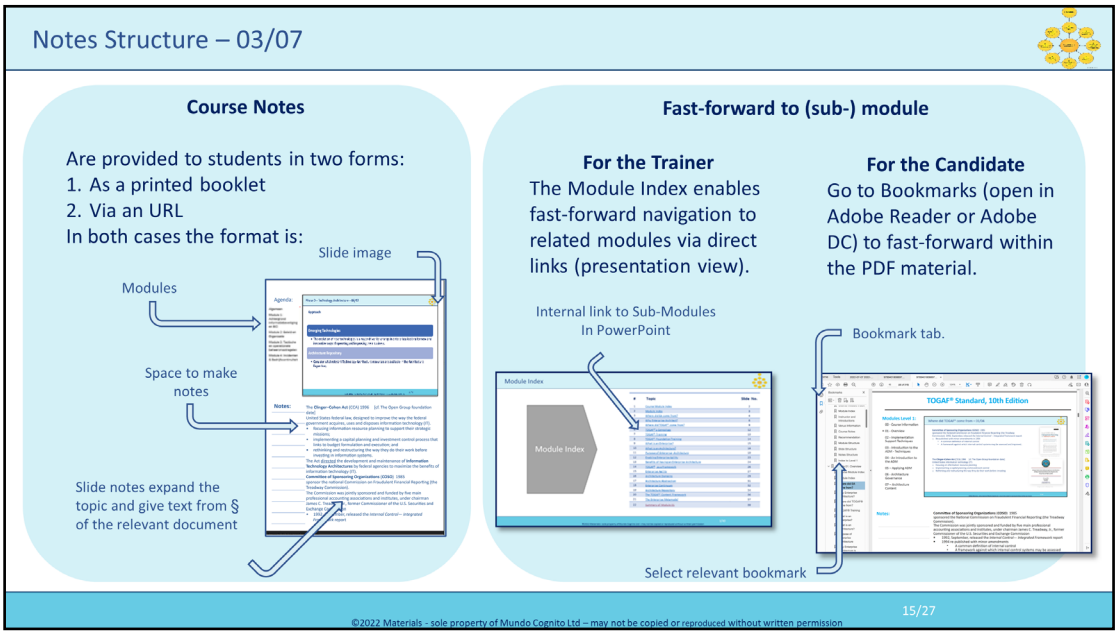

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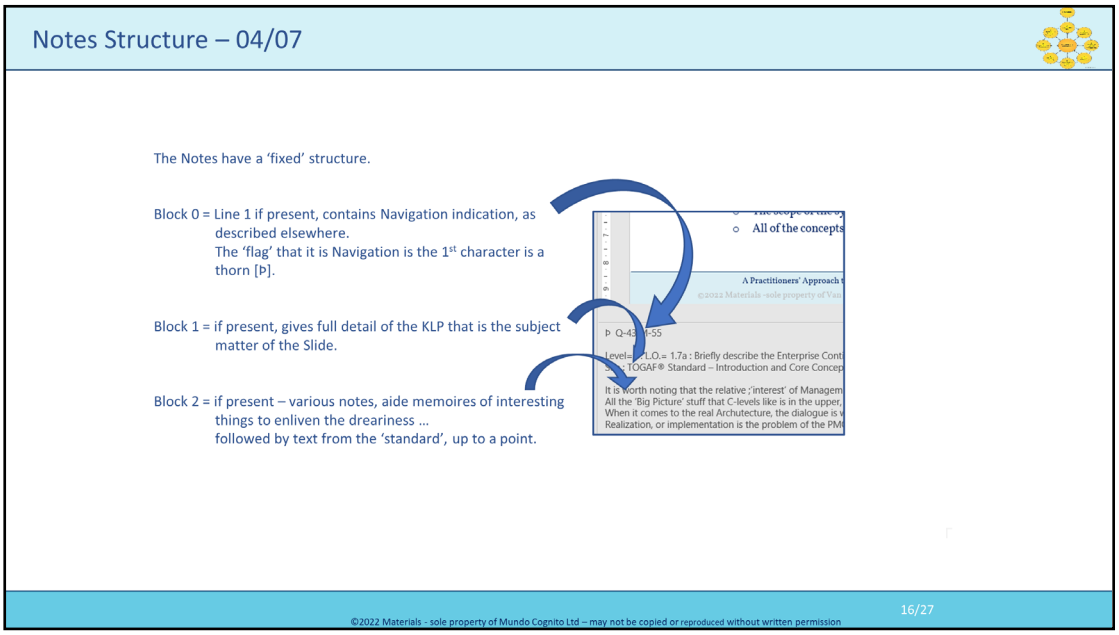

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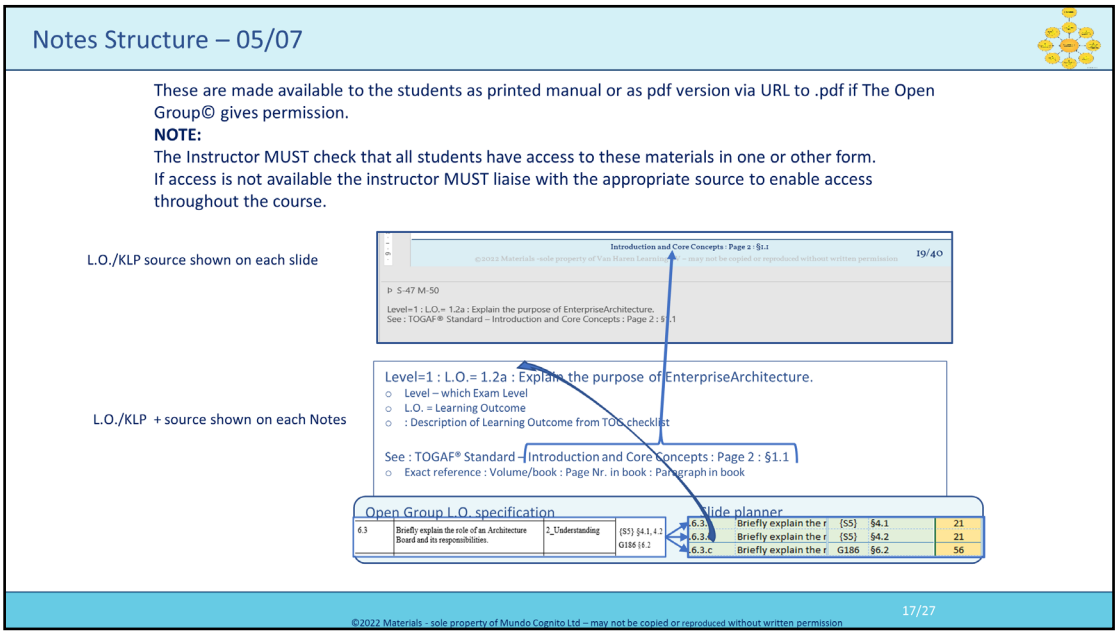

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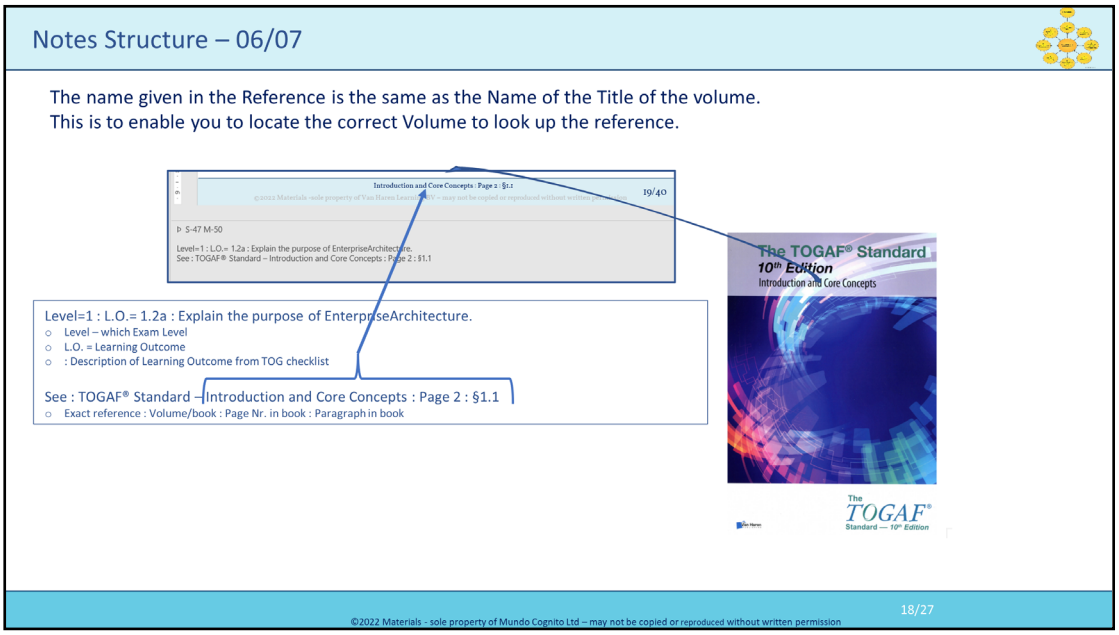

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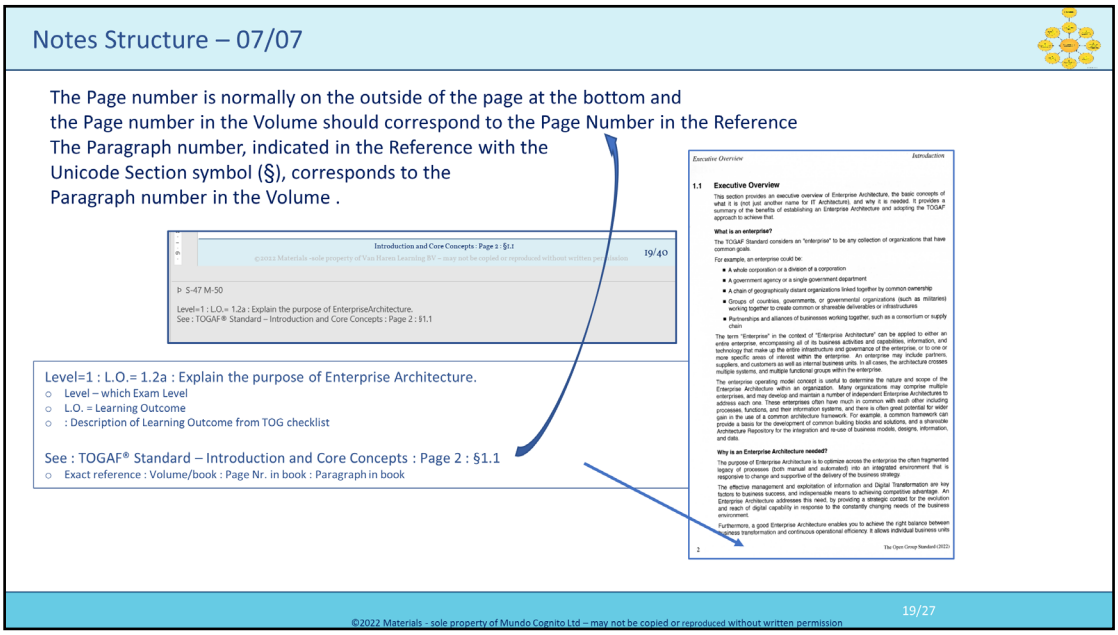

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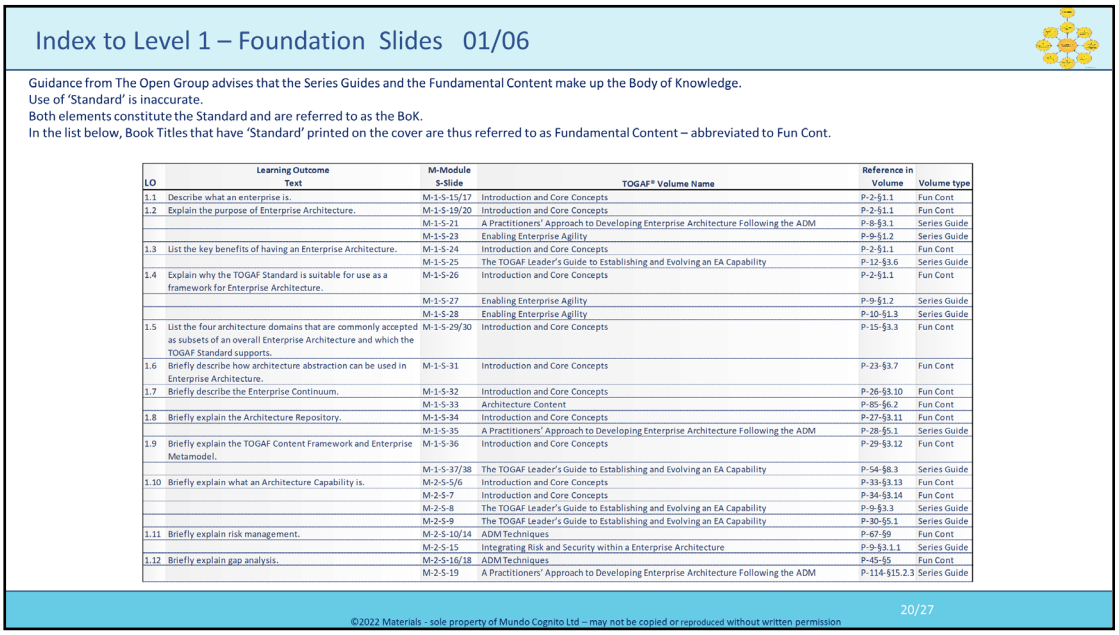

Index to Level 1 – Foundation Slides 01/06

Guidance from The Open Group advises that the Series Guides and the Fundamental Content make up the Body of Knowledge.
Use of 'Standard' is inaccurate.
Both elements constitute the Standard and are referred to as the BoK.
In the list below, Book Titles that have 'Standard' printed on the cover are thus referred to as Fundamental Content – abbreviated to Fun Cont.

LO	Learning Outcome Text	M-Module S-Slide	TOGAF® Volume Name	Reference in Volume	Volume type
1.1	Describe what an enterprise is.	M-1-S-15/17	Introduction and Core Concepts	P-2-§1.1	Fun Cont
1.2	Explain the purpose of Enterprise Architecture.	M-1-S-19/20	Introduction and Core Concepts	P-2-§1.1	Fun Cont
		M-1-S-21	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-8-§3.1	Series Guide
		M-1-S-23	Enabling Enterprise Agility	P-9-§1.2	Series Guide
1.3	List the key benefits of having an Enterprise Architecture.	M-1-S-24	Introduction and Core Concepts	P-2-§1.1	Fun Cont
		M-1-S-25	The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	P-12-§3.6	Series Guide
1.4	Explain why the TOGAF Standard is suitable for use as a framework for Enterprise Architecture.	M-1-S-26	Introduction and Core Concepts	P-2-§1.1	Fun Cont
		M-1-S-27	Enabling Enterprise Agility	P-9-§1.2	Series Guide
		M-1-S-28	Enabling Enterprise Agility	P-10-§1.3	Series Guide
1.5	List the four architecture domains that are commonly accepted as subsets of an overall Enterprise Architecture and which the TOGAF Standard supports.	M-1-S-29/30	Introduction and Core Concepts	P-15-§3.3	Fun Cont
1.6	Briefly describe how architecture abstraction can be used in Enterprise Architecture.	M-1-S-31	Introduction and Core Concepts	P-23-§3.7	Fun Cont
1.7	Briefly describe the Enterprise Continuum.	M-1-S-32	Introduction and Core Concepts	P-26-§3.10	Fun Cont
		M-1-S-33	Architecture Content	P-85-§6.2	Fun Cont
1.8	Briefly explain the Architecture Repository.	M-1-S-34	Introduction and Core Concepts	P-27-§3.11	Fun Cont
		M-1-S-35	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-28-§5.1	Series Guide
1.9	Briefly explain the TOGAF Content Framework and Enterprise Metamodel.	M-1-S-36	Introduction and Core Concepts	P-29-§3.12	Fun Cont
		M-1-S-37/38	The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	P-54-§8.3	Series Guide
1.10	Briefly explain what an Architecture Capability is.	M-2-S-5/6	Introduction and Core Concepts	P-33-§3.13	Fun Cont
		M-2-S-7	Introduction and Core Concepts	P-34-§3.14	Fun Cont
		M-2-S-8	The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	P-9-§3.3	Series Guide
		M-2-S-9	The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	P-30-§5.1	Series Guide
1.11	Briefly explain risk management.	M-2-S-10/14	ADM Techniques	P-67-§9	Fun Cont
		M-2-S-15	Integrating Risk and Security within a Enterprise Architecture	P-9-§3.1.1	Series Guide
1.12	Briefly explain gap analysis.	M-2-S-16/18	ADM Techniques	P-45-§5	Fun Cont
		M-2-S-19	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-114-§15.2.3	Series Guide

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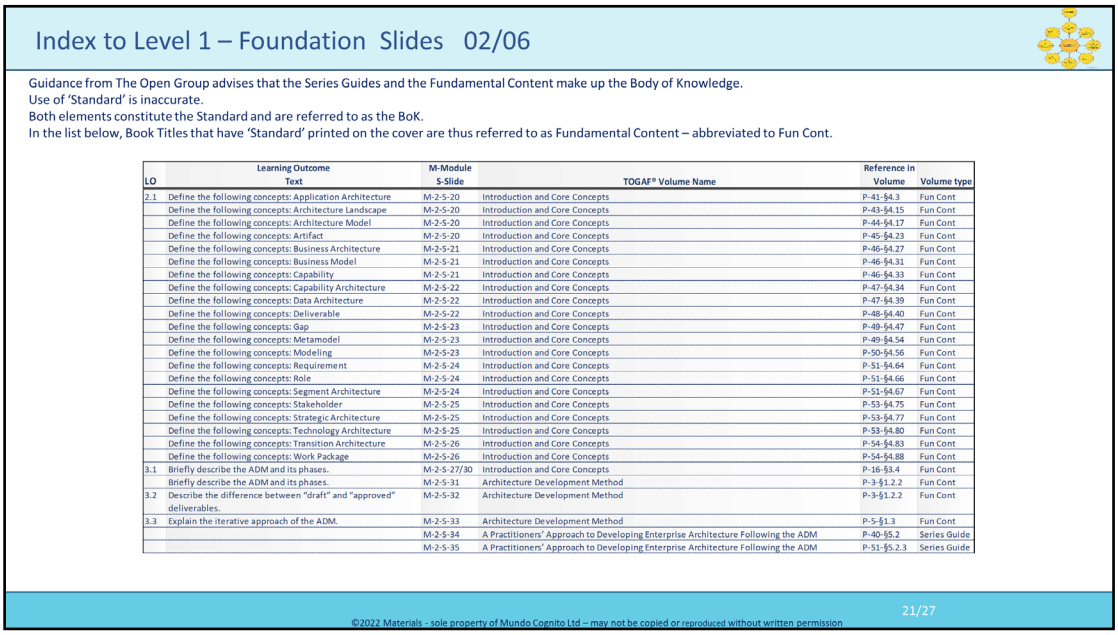

Index to Level 1 – Foundation Slides 02/06

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LO	Learning Outcome Text	M-Module S-Slide	TOGAF® Volume Name	Reference in Volume	Volume type
2.1	Define the following concepts: Application Architecture	M-2-S-20	Introduction and Core Concepts	P-41-§4.3	Fun Cont
	Define the following concepts: Architecture Landscape	M-2-S-20	Introduction and Core Concepts	P-43-§4.15	Fun Cont
	Define the following concepts: Architecture Model	M-2-S-20	Introduction and Core Concepts	P-44-§4.17	Fun Cont
	Define the following concepts: Artifact	M-2-S-20	Introduction and Core Concepts	P-45-§4.23	Fun Cont
	Define the following concepts: Business Architecture	M-2-S-21	Introduction and Core Concepts	P-46-§4.27	Fun Cont
	Define the following concepts: Business Model	M-2-S-21	Introduction and Core Concepts	P-46-§4.31	Fun Cont
	Define the following concepts: Capability	M-2-S-21	Introduction and Core Concepts	P-46-§4.33	Fun Cont
	Define the following concepts: Capability Architecture	M-2-S-22	Introduction and Core Concepts	P-47-§4.34	Fun Cont
	Define the following concepts: Data Architecture	M-2-S-22	Introduction and Core Concepts	P-47-§4.39	Fun Cont
	Define the following concepts: Deliverable	M-2-S-22	Introduction and Core Concepts	P-48-§4.40	Fun Cont
	Define the following concepts: Gap	M-2-S-23	Introduction and Core Concepts	P-49-§4.47	Fun Cont
	Define the following concepts: Metamodel	M-2-S-23	Introduction and Core Concepts	P-49-§4.54	Fun Cont
	Define the following concepts: Modeling	M-2-S-23	Introduction and Core Concepts	P-50-§4.56	Fun Cont
	Define the following concepts: Requirement	M-2-S-24	Introduction and Core Concepts	P-51-§4.64	Fun Cont
	Define the following concepts: Role	M-2-S-24	Introduction and Core Concepts	P-51-§4.66	Fun Cont
	Define the following concepts: Segment Architecture	M-2-S-24	Introduction and Core Concepts	P-51-§4.67	Fun Cont
	Define the following concepts: Stakeholder	M-2-S-25	Introduction and Core Concepts	P-53-§4.75	Fun Cont
	Define the following concepts: Strategic Architecture	M-2-S-25	Introduction and Core Concepts	P-53-§4.77	Fun Cont
	Define the following concepts: Technology Architecture	M-2-S-25	Introduction and Core Concepts	P-53-§4.80	Fun Cont
	Define the following concepts: Transition Architecture	M-2-S-26	Introduction and Core Concepts	P-54-§4.83	Fun Cont
	Define the following concepts: Work Package	M-2-S-26	Introduction and Core Concepts	P-54-§4.88	Fun Cont
3.1	Briefly describe the ADM and its phases.	M-2-S-27/30	Introduction and Core Concepts	P-16-§3.4	Fun Cont
	Briefly describe the ADM and its phases.	M-2-S-31	Architecture Development Method	P-3-§1.2.2	Fun Cont
3.2	Describe the difference between "draft" and "approved" deliverables.	M-2-S-32	Architecture Development Method	P-3-§1.2.2	Fun Cont
3.3	Explain the iterative approach of the ADM.	M-2-S-33	Architecture Development Method	P-5-§1.3	Fun Cont
		M-2-S-34	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-40-§5.2	Series Guide
		M-2-S-35	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-51-§5.2.3	Series Guide

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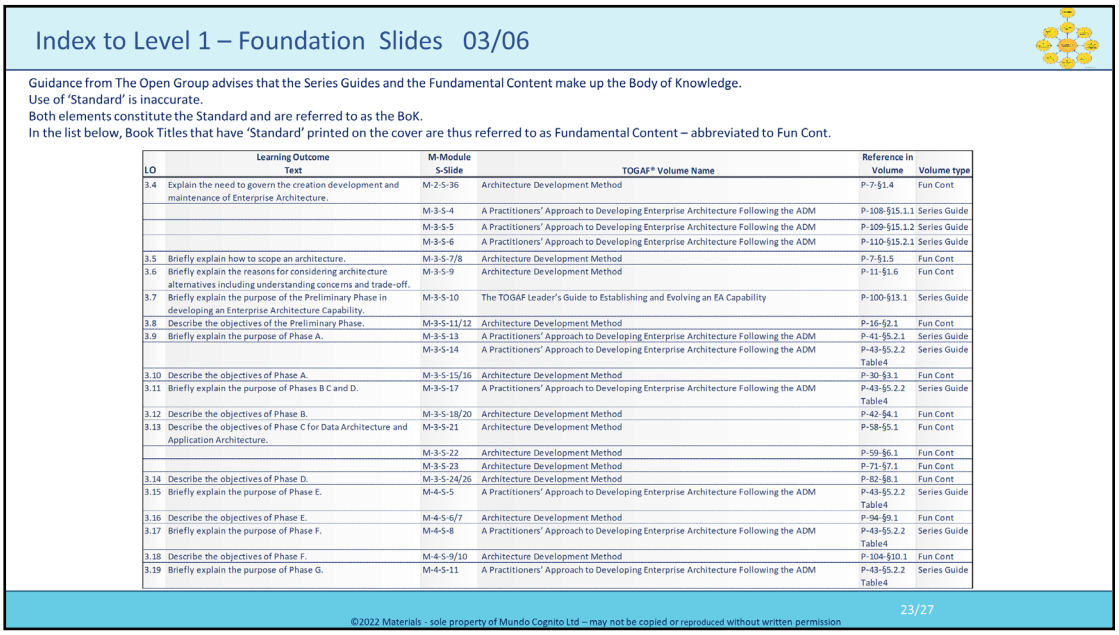

Index to Level 1 – Foundation Slides 03/06

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LO	Learning Outcome Text	M-Module S-Slide	TOGAF® Volume Name	Reference in Volume	Volume type
3.4	Explain the need to govern the creation development and maintenance of Enterprise Architecture.	M-2-S-36	Architecture Development Method	P-7-§1.4	Fun Cont
		M-3-S-4	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-108-§15.1.1	Series Guide
		M-3-S-5	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-109-§15.1.2	Series Guide
		M-3-S-6	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-110-§15.2.1	Series Guide
3.5	Briefly explain how to scope an architecture.	M-3-S-7/8	Architecture Development Method	P-7-§1.5	Fun Cont
3.6	Briefly explain the reasons for considering architecture alternatives including understanding concerns and trade-off.	M-3-S-9	Architecture Development Method	P-11-§1.6	Fun Cont
3.7	Briefly explain the purpose of the Preliminary Phase in developing an Enterprise Architecture Capability.	M-3-S-10	The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	P-100-§13.1	Series Guide
3.8	Describe the objectives of the Preliminary Phase.	M-3-S-11/12	Architecture Development Method	P-16-§2.1	Fun Cont
3.9	Briefly explain the purpose of Phase A.	M-3-S-13	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-41-§5.2.1	Series Guide
		M-3-S-14	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-43-§5.2.2 Table4	Series Guide
3.10	Describe the objectives of Phase A.	M-3-S-15/16	Architecture Development Method	P-30-§3.1	Fun Cont
3.11	Briefly explain the purpose of Phases B C and D.	M-3-S-17	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-43-§5.2.2 Table4	Series Guide
3.12	Describe the objectives of Phase B.	M-3-S-18/20	Architecture Development Method	P-42-§4.1	Fun Cont
3.13	Describe the objectives of Phase C for Data Architecture and Application Architecture.	M-3-S-21	Architecture Development Method	P-58-§5.1	Fun Cont
		M-3-S-22	Architecture Development Method	P-59-§6.1	Fun Cont
		M-3-S-23	Architecture Development Method	P-71-§7.1	Fun Cont
3.14	Describe the objectives of Phase D.	M-3-S-24/26	Architecture Development Method	P-82-§8.1	Fun Cont
3.15	Briefly explain the purpose of Phase E.	M-4-S-5	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-43-§5.2.2 Table4	Series Guide
3.16	Describe the objectives of Phase E.	M-4-S-6/7	Architecture Development Method	P-94-§9.1	Fun Cont
3.17	Briefly explain the purpose of Phase F.	M-4-S-8	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-43-§5.2.2 Table4	Series Guide
3.18	Describe the objectives of Phase F.	M-4-S-9/10	Architecture Development Method	P-104-§10.1	Fun Cont
3.19	Briefly explain the purpose of Phase G.	M-4-S-11	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-43-§5.2.2 Table4	Series Guide

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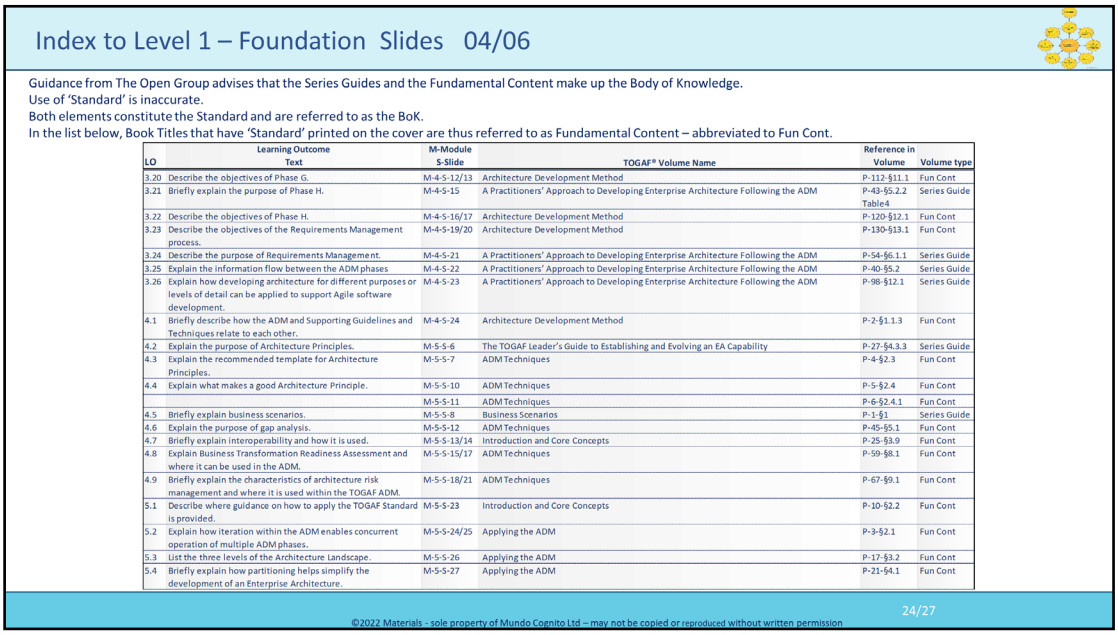

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LO	Learning Outcome Text	M-Module S-Slide	TOGAF® Volume Name	Reference in Volume	Volume type
3.20	Describe the objectives of Phase G.	M-4-S-12/13	Architecture Development Method	P-112-§11.1	Fun Cont
3.21	Briefly explain the purpose of Phase H.	M-4-S-15	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-43-§5.2.2 Table4	Series Guide
3.22	Describe the objectives of Phase H.	M-4-S-16/17	Architecture Development Method	P-120-§12.1	Fun Cont
3.23	Describe the objectives of the Requirements Management process.	M-4-S-19/20	Architecture Development Method	P-130-§13.1	Fun Cont
3.24	Describe the purpose of Requirements Management.	M-4-S-21	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-54-§6.1.1	Series Guide
3.25	Explain the information flow between the ADM phases	M-4-S-22	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-40-§5.2	Series Guide
3.26	Explain how developing architecture for different purposes or levels of detail can be applied to support Agile software development.	M-4-S-23	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-98-§12.1	Series Guide
4.1	Briefly describe how the ADM and Supporting Guidelines and Techniques relate to each other.	M-4-S-24	Architecture Development Method	P-2-§1.1.3	Fun Cont
4.2	Explain the purpose of Architecture Principles.	M-5-S-6	The TOGAF Leader's Guide to Establishing and Evolving an EA Capability	P-27-§4.3.3	Series Guide
4.3	Explain the recommended template for Architecture Principles.	M-5-S-7	ADM Techniques	P-4-§2.3	Fun Cont
4.4	Explain what makes a good Architecture Principle.	M-5-S-10	ADM Techniques	P-5-§2.4	Fun Cont
		M-5-S-11	ADM Techniques	P-6-§2.4.1	Fun Cont
4.5	Briefly explain business scenarios.	M-5-S-8	Business Scenarios	P-1-§1	Series Guide
4.6	Explain the purpose of gap analysis.	M-5-S-12	ADM Techniques	P-45-§5.1	Fun Cont
4.7	Briefly explain interoperability and how it is used.	M-5-S-13/14	Introduction and Core Concepts	P-25-§3.9	Fun Cont
4.8	Explain Business Transformation Readiness Assessment and where it can be used in the ADM.	M-5-S-15/17	ADM Techniques	P-59-§8.1	Fun Cont
4.9	Briefly explain the characteristics of architecture risk management and where it is used within the TOGAF ADM.	M-5-S-18/21	ADM Techniques	P-67-§9.1	Fun Cont
5.1	Describe where guidance on how to apply the TOGAF Standard is provided.	M-5-S-23	Introduction and Core Concepts	P-10-§2.2	Fun Cont
5.2	Explain how iteration within the ADM enables concurrent operation of multiple ADM phases.	M-5-S-24/25	Applying the ADM	P-3-§2.1	Fun Cont
5.3	List the three levels of the Architecture Landscape.	M-5-S-26	Applying the ADM	P-17-§3.2	Fun Cont
5.4	Briefly explain how partitioning helps simplify the development of an Enterprise Architecture.	M-5-S-27	Applying the ADM	P-21-§4.1	Fun Cont

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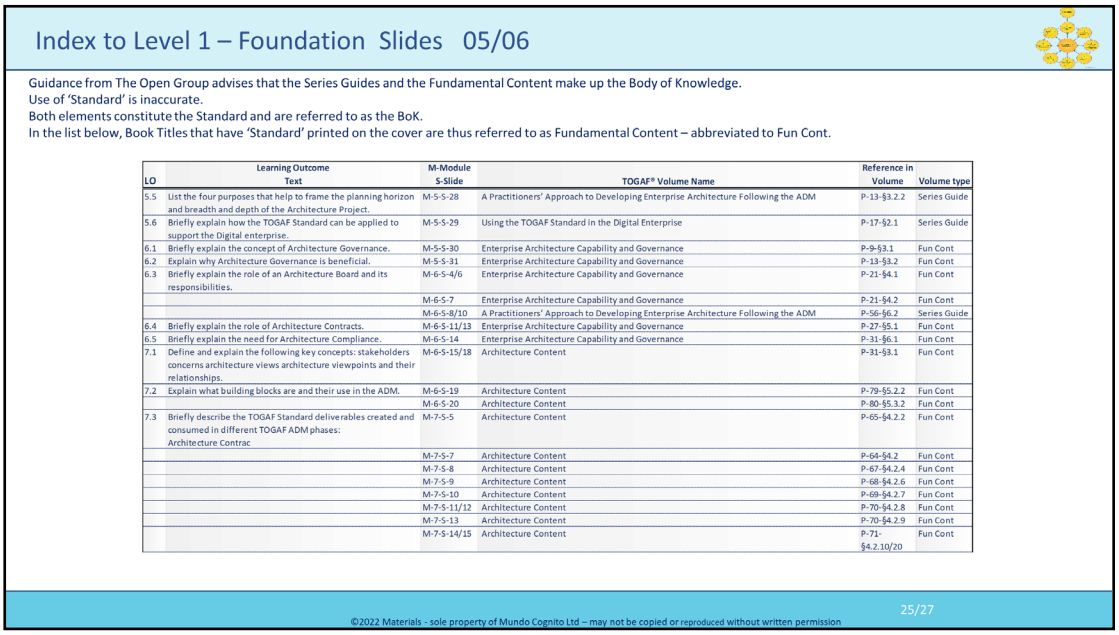

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LO	Learning Outcome Text	M-Module S-Slide	TOGAF® Volume Name	Reference in Volume	Volume type
5.5	List the four purposes that help to frame the planning horizon and breadth and depth of the Architecture Project.	M-5-S-28	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-13-§3.2.2	Series Guide
5.6	Briefly explain how the TOGAF Standard can be applied to support the Digital enterprise.	M-5-S-29	Using the TOGAF Standard in the Digital Enterprise	P-17-§2.1	Series Guide
6.1	Briefly explain the concept of Architecture Governance.	M-5-S-30	Enterprise Architecture Capability and Governance	P-9-§3.1	Fun Cont
6.2	Explain why Architecture Governance is beneficial.	M-5-S-31	Enterprise Architecture Capability and Governance	P-13-§3.2	Fun Cont
6.3	Briefly explain the role of an Architecture Board and its responsibilities.	M-6-S-4/6	Enterprise Architecture Capability and Governance	P-21-§4.1	Fun Cont
		M-6-S-7	Enterprise Architecture Capability and Governance	P-21-§4.2	Fun Cont
		M-6-S-8/10	A Practitioners' Approach to Developing Enterprise Architecture Following the ADM	P-56-§6.2	Series Guide
6.4	Briefly explain the role of Architecture Contracts.	M-6-S-11/13	Enterprise Architecture Capability and Governance	P-27-§5.1	Fun Cont
6.5	Briefly explain the need for Architecture Compliance.	M-6-S-14	Enterprise Architecture Capability and Governance	P-31-§6.1	Fun Cont
7.1	Define and explain the following key concepts: stakeholders concerns architecture views architecture viewpoints and their relationships.	M-6-S-15/18	Architecture Content	P-31-§3.1	Fun Cont
7.2	Explain what building blocks are and their use in the ADM.	M-6-S-19	Architecture Content	P-79-§5.2.2	Fun Cont
		M-6-S-20	Architecture Content	P-80-§5.3.2	Fun Cont
7.3	Briefly describe the TOGAF Standard deliverables created and consumed in different TOGAF ADM phases: Architecture Contrac	M-7-S-5	Architecture Content	P-65-§4.2.2	Fun Cont
		M-7-S-7	Architecture Content	P-64-§4.2	Fun Cont
		M-7-S-8	Architecture Content	P-67-§4.2.4	Fun Cont
		M-7-S-9	Architecture Content	P-68-§4.2.6	Fun Cont
		M-7-S-10	Architecture Content	P-69-§4.2.7	Fun Cont
		M-7-S-11/12	Architecture Content	P-70-§4.2.8	Fun Cont
		M-7-S-13	Architecture Content	P-70-§4.2.9	Fun Cont
		M-7-S-14/15	Architecture Content	P-71-§4.2.10/20	Fun Cont

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