ISTQB - 2012 Advanced Level Syllabi Exam Structure and Rules

Version 2012-1.2

International Software Testing Qualifications Board

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1. General

1.1. Validity

All ISTQB 2012 Advanced Level examinations run after 19 October 2013 shall comply with the structure and rules described in this document, regardless of language and media.

1.2. Purpose

This document contains structure and rules for the setup of examinations related to the ISTQB 2012 Advanced Level syllabi.

1.3. Scope

This document covers:

  a) the number of questions per examination;
  b) the length of the examination;
  c) the distribution of questions per topic (chapter); and
  d) the distribution of questions per cognitive level.

1.4. References

[QWRR_2011]   ISTQB - Question Writing Rules & Recommendations Version 2011-1

[CTAL_2012]   ISTQB 2012 Advanced Syllabi

1.5. Document Responsibility

General responsibility for this document is under the ISTQB Examination Working Group.

1.6. Revision History

Date	Version	Name	Comment
2009/09/08	Draft 0.1	N/A	Initial Draft based on previous Beta Versions
2009/10/13	Draft 0.2	Horst Pohlmann	N/A
2009/10/18	Draft 0.3	Horst Pohlmann	Based on conf call with Graeme Mackenzie
2009/11/21	Draft 0.4	Mette Bruhn-Pedersen	Minor corrections
2009/11/22	Draft 0.5	Mette Bruhn-Pedersen	Included review comments from Horst Pohlmann
2009/11/24	Draft 0.6	Carol Cornelius and Graeme Mackenzie	Review of comments added by Horst Pohlmann and Mette Bruhn-Pedersen.
2009/12/15	Draft 0.7	Mette Bruhn-Pedersen	Review of comments added by Horst Pohlmann and Mette Bruhn-Pedersen.
2010/01/11	Draft 0.8	Horst Pohlmann	N/A
2010/01/12	Draft 0.9	Horst Pohlmann	N/A
2011/03/31	Draft 0.10	Ingvar Nordstrom	a) First page/copyright aligned with FL Structure & Rules b) Difficulty changed to importance c) Distribution of question tables updated after mail from Stuart July 31st 2010 and KL-meeting. Now according to LO
2011/04/01	Draft 0.11	Ingvar Nordstrom	Title changed to 2011-1 Updated after comments from Mette and Stuart
2011/04/04	Draft 0.12	Ingvar Nordstrom	Front page updated Chap 2.3 questions not related to a LO. Added by Mette Notes 6-8 modified
2011/04/10	Draft 0.13	Ingvar Nordstrom	- Effective date set to 31st of December 2011 - Definition of what represent 3 points changed
2011/04/11	For GA Approval 0.14	Mette Bruhn-Pedersen	- Minor correction of number of points per exam to ensure consistency. Now the total number of points in an exam must be 100. - Deleted section which was repeated (could not be seen in the Final, Show Markup view). - Deleted explanation about question's points and complexity as it was already in the section above (removed the word challenging as well). - Removed footnote 6 which referred to the question writing guidelines for determining question difficulty.
15/06/2011	For GA 0.15		Modifications from EWG Rome - Removed allowance for questions to not align to

			LO's - Removed allowance for total marks other than 1... - Removed partial mark table (now in Question Writing Rules and Recommendations document) - Removed question numbers from Question Marking table - Changed numbers in "Suggested distribution of exam questions per chapter and level" section of Exam Structure tables to better align with Syllabus
	1.0	Stuart Reid	For GA – Update to make consistent with new Examination Recommendations and Rules (and FL Structure and Rules document – so losing tracked changes).
	1.1	Graeme Mackenzie	Incorporated comments from review by all of the Exam Working Group
xxx	2.0	Stuart Reid Marco Sogliani	Updated to align with 2012 Versions of Syllabi
25/02/2012	2.1	Stuart Reid	Headers and Footers updated
08/07/2012	2.2	Stuart Reid Debra Friedenberg	Updated question breakdown and exam timings based on suggestions from Kryterion and the LO prioritization exercise (which took place during the Tallinn EWG/ALWG meeting).
09/07/2012	2.3	Debra Friedenberg	Updated question breakdown tables based on suggestions from Stuart. Other minor text changes.
07/09/12	2.4	Debra Friedenberg	Minor changes to the breakdown tables. Added an annex with sample exam structures.
11/07/12	2.5	Debra Friedenberg	Comments incorporated from Stuart. Draft to be sent for initial internal review.
25/07/12	2.6	Debra Friedenberg Stuart Reid	Comments incorporated from initial internal review. Draft to be sent for full EWG review.
07/08/12	2.7	Debra Friedenberg Stuart Reid	Comments incorporated from EWG review.
15/08/12	2012-1.0	Debra Friedenberg	Final updates incorporated. Version for Cape Town GA Motion
02/09/12	2012-1.0	Debra Friedenberg	Final version for one month deadline. Corrected one typographical error.
05/02/13	2012-1.1	Debra Friedenberg	Corrected two typographical errors. Officially released version.
12/04/2013	2012-1.2	Minna Aalto	Modified front matter to release the document as a public version (per Toronto GA motion)

2. Definitions

- CTAL: Acronym for Certified Tester Advanced Level.
- LEARNING OBJECTIVE (LO): Learning objectives describe the gain on cognitive competence to be achieved in relation to given content.
- MC: Multiple-Choice is a form of assessment in which respondents are asked to select the best possible answer (or answers) from the options in a list.

3. Advanced Level Exam Rules

3.1. The 2012 Advanced Level Examinations

3.1.1. The 2012 Advanced Level examinations shall be based on the 2012 Advanced Level syllabi [CTAL_2012]. Answers to examination questions may require the use of material from more than one section of these syllabi.

3.1.2. All learning objectives (on cognitive levels K1 to K4) in the syllabus are examinable.

3.2. General Advanced Level Exam Structure

3.2.1. Each examination module (i.e. Test Manager, Test Analyst and Technical Test Analyst) shall comprise a set of multiple-choice questions based on the Learning Objectives for that specific syllabus. The level of coverage and distribution of questions has been based on the Learning Objectives, their K-levels, and their level of importance as evaluated by the ISTQB. Details on the structure for each examination module are provided in section 3.5 below.

3.2.2. The points available for a question should reflect the difficulty of the question. A K2 question is to be allocated 1 point. In general, a K3 question should be allocated 2 points and a K4 question should be allocated 3 points. However, K3 questions may be set at 1, 2, or 3 points, and K4 questions may be set at 2 or 3 points at the discretion of the question author.

A more difficult question may require the examinee to have a deeper or more nuanced understanding of the material. A less difficult question may be one where the answer is more straightforward.

3.2.3. In general, K2 questions are expected to take 2 minutes to read and answer, K3 questions are expected to take 3 minutes and K4 questions are expected to take 4 minutes. The exam setter should keep in mind that this is only a guideline for an average time, and that it is likely that some questions will take longer and others will take less time for examinees to complete.

3.2.4. The time allowed for each examination is based on the number and K-level of questions required for that module. If the candidate's native language is not the examination language, the candidate is allowed an additional 25%.

Module	Number of questions	Exam Length (in minutes)	Exam Length + 25% (in minutes)
Advanced Test Manager	65	180	225
Advanced Test Analyst	60	180	225
Advanced Technical Test Analyst	45	120	150

3.3. Passing Score

3.3.1. A score of at least 65% is required to pass.

3.4. Specific Rules

3.4.1. For the rules and recommendations for writing multiple-choice questions see the ISTQB - Question Writing Rules & Recommendations [QWRR_2011].

3.4.2. All questions shall assess at least one Learning Objective from the Advanced Syllabus under examination. Questions may include supporting material at the K1 level from the rest of the syllabus, incorporate concepts from Foundation syllabus LOs and/or include other Foundation syllabus material at the K1 level. Where questions address more than one LO, then the question should primarily address the highest K-Level LO.

3.5. Question Distribution

3.5.1. The exam structures for each of the three modules (i.e. Test Manager, Test Analyst and Technical Test Analyst) are provided in the following tables. Each of the exams requires mandatory questions targeted to specific Learning Objectives. In addition, the Test Manager and Test Analyst exams also require the inclusion of a specified number of additional questions based on "selectable" Learning Objectives.

3.5.2. **Advanced Level Test Manager Exam Structure**

Chapter & LO	Number of Questions per LO	Number of Questions per Chapter
Chapter 1		
TM-1.2.1 (K4)	2	In addition to the number of mandatory questions specified by individual LO (13), a maximum of ONE question MAY be
TM-1.3.1 (K3)	2	

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TM-1.3.2 (K2)	1	written for the selectable LO marked with an asterisk.
TM-1.4.1 (K3)	2	
TM-1.5.1 (K3)	2	
TM-1.6.1 (K3)	2	
TM-1.7.1 (K2)	1	
TM-1.8.1 (K2)	*	
TM-1.8.2 (k3)	1	
Chapter 1 TOTAL		13 mandatory (+ max 1 selectable) = minimum 13 questions and maximum 14 questions

Chapter 2

TM-2.2.1 (K4)	2	
TM-2.2.2 (K2)	2	
TM-2.2.3 (K2)	1	
TM-2.3.1 (K2)	1	
TM-2.3.2 (K2)	1	
TM-2.3.3 (K4)	2	
TM-2.3.4 K2)	2	
TM-2.3.5 (K2)	*	
TM 2.4.1 (K4)	1	
TM-2.4.2 (K4)	1	In addition to the number of mandatory questions specified by individual LO (24), a minimum of ONE question MUST be written against one of the three remaining selectable LOs (those marked with an asterisk).
TM-2.4.3 (K2)	2	
TM-2.4.4 (K3)	1	
TM-2.5.1 (K3)	1	
TM-2.5.2 (K2)	1	
TM-2.6.1 (K2)	1	
TM-2.6.2 (K2)	1	
TM-2.6.3 (K2)	2	
TM-2.7.1 (K2)	*	
TM-2.7.2 (K3)	1	
TM-2.8.1 K2)	1	
TM-2.9.1 (K2)	*	
Chapter 2 TOTAL		24 mandatory (+ minimum 1 selectable) = minimum 25 questions

Chapter 3

TM-3.2.1 (K2)	1	
TM-3.3.1 (K4)	2	
TM-3.3.2 (K2)	1	Exactly SIX questions, as specified by LO, are required for this chapter.
TM-3.4.1 (K3)	1	
TM-3.5.1 (K2)	1	
Chapter 3 TOTAL		6 mandatory questions

Chapter 4

TM-4.2.1 (K3)	1	Exactly FOUR questions, as specified by LO, are required for

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TM-4.2.2 (K2)	1	this chapter.
TM-4.3.1 (K3)	1	
TM-4.4.1 (K2)	1	
Chapter 4 TOTAL		4 mandatory questions

Chapter 5

TM-5.2.1 (K2)	1	
TM-5.3.1 (K3)	*	In addition to the single mandatory question specified by individual LO, a minimum of TWO questions MUST be written against two the remaining five selectable LOs (those marked with an asterisk).
TM-5.4.1 (K2)	*	
TM-5.5.1 (K2)	*	
TM-5.6.1 (K2)	*	
TM-5.7.1 (K2)	*	
Chapter 5 TOTAL		1 mandatory (+ minimum 2 selectable) = minimum 3 questions

Chapter 6

TM-6.2.1 (K2)	1	
TM-6.2.2 (K2)	1	In addition to the number of mandatory questions specified by individual LO (4), a maximum of ONE question MAY be written for the selectable LO marked with an asterisk.
TM-6.2.3 (K4)	1	
TM-6.3.1 (K2)	1	
TM-6.4.1 (K2)	*	
Chapter 6 TOTAL		4 mandatory (+ max 1 selectable) = minimum 4 questions and maximum 5 questions

Chapter 7

TM-7.2.1 (K4)	2	
TM-7.2.2 (K4)	1	In addition to the number of mandatory questions specified by individual LO (6), a minimum of ONE question MUST be written against one of the remaining two selectable LOs (those marked with an asterisk).
TM-7.3.1 (K2)	1	
TM-7.4.1 (K2)	*	
TM-7.5.1 (K2)	2	
TM-7.6.1 (K2)	*	
Chapter 7 TOTAL		6 mandatory (+ minimum 1 selectable) = minimum 7 questions

ATM TOTAL	58 mandatory + 7 selectable = 65 questions

NOTES:

Each 'selectable' LO may have no more than one question written against it in any one examination.

Depending on the selectable LOs chosen, the calculated time for the exam, based on the expected time per question as described in section 3.2.3, will range from 175 to 176 minutes, or an average difference of up to 1 second per question. This time variance is not significant, and the time allowed for the exam shall be set at 180 minutes (+25% for non-native language examinees).

The total number of points for this exam should be set at exactly 115 points. Therefore, a minimum of 75 points is required to achieve a passing score.

3.5.3. **Advanced Level Test Analyst Exam Structure**

Chapter & LO	Number of Questions per LO	Number of questions per Chapter
Chapter 1		
TA-1.2.1 (K2)	*	In addition to the mandatory questions specified by individual LO (6), a minimum of THREE questions MUST be written against three of the remaining six selectable LOs (those marked with an asterisk).
TA-1.3.1 (K2)	2	
TA-1.4.1 (K4)	*	
TA-1.5.1 (K2)	*	
TA-1.5.2 (K4)	1	
TA-1.6.1 (K2)	*	
TA-1.7.1 (K3)	*	
TA-1.8.1 (K2)	3	
TA-1.9.1 (K2)	*	
Chapter 1 TOTAL		6 mandatory (+ minimum 3 selectable) = minimum 9 questions
Chapter 2		
TA-2.2.1 (K2)	*	In addition to the mandatory questions specified by individual LO (2), a minimum of ONE question MUST be written against one of the remaining two selectable LOs (those marked with an asterisk).
TA-2.3.1 (K2)	*	
TA-2.4.1 (K3)	2	
Chapter 2 TOTAL		2 mandatory (+ minimum 1 selectable) = minimum 3 questions
Chapter 3		
TA-3.2.1 (K2)	*	In addition to the mandatory questions specified by individual LO (29), a minimum of TWO questions MUST be written against two of the remaining five selectable LOs (those marked with an asterisk).
TA-3.2.2 (K3)	3	
TA-3.2.3 (K3)	3	
TA-3.2.4 (K3)	3	
TA-3.2.5 (K3)	3	
TA-3.2.6 (K3)	3	
TA-3.2.7 (K3)	3	
TA-3.2.8 (K3)	3	
TA-3.2.9 (K2)	*	
TA-3.2.10 (K3)	*	
TA-3.2.11 (K4)	3	
TA-3.3.1 (K2)	*	
TA-3.3.2 (K4)	*	
TA-3.4.1 (K2)	1	
TA-3.4.2 (K3)	1	
TA-3.4.3 (K4)	3	
Chapter 3 TOTAL		29 specified (+ minimum 2 selectable) = minimum 31 questions

Chapter 4		
TA-4.2.1 (K2)	*	In addition to the mandatory questions specified by individual LO (3), a minimum of ONE question MUST be written against one of the remaining three selectable LOs (those marked with an asterisk).
TA-4.2.2 (K2)	*	
TA-4.2.3 (K2)	*	
TA-4.2.4 (K4)	3	
Chapter 4 TOTAL		3 mandatory (+ 1 minimum selectable) = minimum 4 questions

Chapter 5		
TA-5.1.1 (K2)	*	In addition to the mandatory questions specified by individual LO (4), a maximum of ONE question MAY be written for the selectable LO (marked with an asterisk.).
TA-5.2.1 (K4)	2	
TA-5.2.2 (K4)	2	
Chapter 5 TOTAL		4 mandatory (+ 1 maximum selectable) = minimum 4 and maximum 5 questions

Chapter 6		
TA-6.2.1 (K2)	*	In addition to the mandatory questions specified by individual LO (3), a minimum of ONE question MUST be written against one of the remaining three selectable LOs (those marked with an asterisk).
TA-6.3.1 (K2)	*	
TA-6.4.1 (K4)	3	
TA-6.5.1 (K2)	*	
Chapter 6 TOTAL		3 mandatory (+ 1 minimum selectable) = minimum 4 questions

Chapter 7		
TA-7.2.1 (K2)	*	There are no questions specified by individual LO for this chapter, but a minimum of ONE question MUST be written against one of the three selectable LOs (those marked with an asterisk).
TA-7.2.2 (K2)	*	
TA-7.2.3 (K2)	*	
Chapter 7 TOTAL		minimum 1 selectable question

TA TOTAL	47 mandatory + 13 selectable = 60 questions

NOTES:

Each 'selectable' LO may have no more than one question written against it in any one examination.

Depending on the selectable LOs chosen, the calculated time for the exam, based on the expected time per question as described in section 3.2.3, will range from 178 to 182 minutes, or an average difference of up to 4 seconds per question. This time variance is not significant, and the time allowed for the exam shall be set at 180 minutes (+25% for non-native language examinees).

The total number of points for this exam should be set at exactly 120 points. Therefore, a minimum of 78 points is required to achieve a passing score.

3.5.4. **Advanced Level Technical Test Analyst Exam Structure**

Chapter & LO	Number of Questions per LO	Number of questions per Chapter
Chapter 1		
TTA-1.3.1 (K2)	1	Exactly TWO questions, as specified by LO, are required for this chapter.
TTA-1.x.1 (K2)	1	
Chapter 1 TOTAL		2 mandatory questions
Chapter 2		
TTA-2.2.1 (K2)	1	
TTA-2.3.1 (K3)	1	
TTA-2.4.1 (K3)	1	
TTA-2.5.1 (K3)	1	Exactly NINE questions, as specified by LO, are required for this chapter.
TTA-2.6.1 (K3)	1	
TTA-2.7.1 (K2)	2	
TTA-2.8.1 (K4)	2	
Chapter 2 TOTAL		9 mandatory questions
Chapter 3		
TTA-3.2.1 (K3)	3	
TTA-3.2.2 (K3)	1	
TTA-3.2.3 (K3)	1	Exactly SEVEN questions, as specified by LO, are required for this chapter.
TTA-3.2.4 (K2)	1	
TTA-3.3.1 (K3)	1	
Chapter 3 TOTAL		7 mandatory questions
Chapter 4		
TTA-4.2.1 (K4)	2	
TTA-4.3.1 (K3)	1	
TTA-4.4.1 (K3)	1	
TTA-4.5.1 (K3)	1	Exactly TWELVE questions, as specified by LO, are required for this chapter.
TTA-4.x.1 (K2)	1	
TTA-4.x.2 (K3)	2	
TTA-4.x.3 (K2)	2	
TTA-4.x.4 (K3)	2	
Chapter 4 TOTAL		12 mandatory questions

Chapter 5		
TTA-5.1.1 (K2)	1	Exactly FIVE questions, as specified by LO, are required for this chapter.
TTA-5.2.1 (K4)	2	
TTA-5.2.2 (K4)	2	
Chapter 5 TOTAL		5 mandatory questions

Chapter 6		
TTA-6.1.1 (K2)	1	Exactly TEN questions, as specified by LO, are required for this chapter.
TTA-6.2.1 (K2)	1	
TTA-6.2.2 (K2)	1	
TTA-6.2.3 (K2)	1	
TTA-6.2.4 (K3)	1	
TTA-6.3.1 (K2)	1	
TTA-6.3.2 (K2)	1	
TTA-6.3.3 (K2)	1	
TTA-6.3.4 (K2)	1	
TTA-6.3.5 (K2)	1	
Chapter 6 TOTAL		10 mandatory questions

TTA TOTAL	45 mandatory questions

NOTE:

The time allocated for the exam shall be set at 120 minutes (+25% for non-native language examinees). The calculated time for the exam, based on the expected time per question as described in section 3.2.3, is 124 minutes; the variance of 4 minutes equates to 5 seconds per question, which is not considered significant.

The total number of points for this exam should be set at 80 points. Therefore, a minimum of <u>52 points</u> is required to achieve a passing score.

4. Appendix A: Example Examination Structures

4.1. Example Advanced Test Manager Exam Structure

The table below contains an example of how a valid Advanced Test Manager examination could be constructed by following the rules listed in section 3.5.2. Selectable LO questions are indicated in BOLD text.

Chapter & LO	Number of Questions per LO	Number of Questions per Chapter
Chapter 1		
TM-1.2.1 (K4)	2	
TM-1.3.1 (K3)	2	
TM-1.3.2 (K2)	1	
TM-1.4.1 (K3)	2	In addition to the number of mandatory questions specified by individual LO (13), a maximum of ONE question MAY be written for the selectable LO marked with an asterisk.
TM-1.5.1 (K3)	2	
TM-1.6.1 (K3)	2	
TM-1.7.1 (K2)	1	No selectable LOs were included.
TM-1.8.1 (K2)	--	
TM-1.8.2 (K3)	1	
Chapter 1 TOTAL		13 questions
Chapter 2		
TM-2.2.1 (K4)	2	
TM-2.2.2 (K2)	2	
TM-2.2.3 (K2)	1	
TM-2.3.1 (K2)	1	
TM-2.3.2 (K2)	1	
TM-2.3.3 (K4)	2	
TM-2.3.4 K2)	2	
TM-2.3.5 (K2)	**1**	
TM 2.4.1 (K4)	1	In addition to the number of mandatory questions specified by individual LO (24), a minimum of ONE question MUST be written against one of the three remaining selectable LOs (those marked with an asterisk).
TM-2.4.2 (K4)	1	
TM-2.4.3 (K2)	2	
TM-2.4.4 (K3)	1	
TM-2.5.1 (K3)	1	Selectable LOs are indicated in bold text.
TM-2.5.2 (K2)	1	
TM-2.6.1 (K2)	1	
TM-2.6.2 (K2)	1	
TM-2.6.3 (K2)	2	
TM-2.7.1 (K2)	**1**	
TM-2.7.2 (K3)	1	
TM-2.8.1 K2)	1	
TM-2.9.1 (K2)	--	

Chapter 2 TOTAL	26 questions

Chapter 3

TM-3.2.1 (K2)	1	
TM-3.3.1 (K4)	2	
TM-3.3.2 (K2)	1	Exactly SIX questions, as specified by LO, are required for this chapter.
TM-3.4.1 (K3)	1	
TM-3.5.1 (K2)	1	

Chapter 3 TOTAL	6 questions

Chapter 4

TM-4.2.1 (K3)	1	
TM-4.2.2 (K2)	1	Exactly FOUR questions, as specified by LO, are required for this chapter.
TM-4.3.1 (K3)	1	
TM-4.4.1 (K2)	1	

Chapter 4 TOTAL	4 questions

Chapter 5

TM-5.2.1 (K2)	1	
TM-5.3.1 (K3)	--	In addition to the single mandatory question specified by individual LO, a minimum of TWO questions MUST be written against two the remaining five selectable LOs (those marked with an asterisk).
TM-5.4.1 (K2)	**1**	
TM-5.5.1 (K2)	**1**	
TM-5.6.1 (K2)	**1**	Selectable LOs are indicated in bold text.
TM-5.7.1 (K2)	**1**	

Chapter 5 TOTAL	5 questions

Chapter 6

TM-6.2.1 (K2)	1	
TM-6.2.2 (K2)	1	In addition to the number of mandatory questions specified by individual LO (4), a maximum of ONE question MAY be written for the selectable LO marked with an asterisk
TM-6.2.3 (K4)	1	
TM-6.3.1 (K2)	1	No selectable LOs were included.
TM-6.4.1 (K2)	--	

Chapter 6 TOTAL	4 questions

Chapter 7

TM-7.2.1 (K4)	2	
TM-7.2.2 (K4)	1	In addition to the number of mandatory questions specified by individual LO (6), a minimum of ONE question MUST be written against one of the remaining two selectable LOs (those marked with an asterisk).
TM-7.3.1 (K2)	1	
TM-7.4.1 (K2)	--	
TM-7.5.1 (K2)	2	Selectable LOs are indicated in bold text.
TM-7.6.1 (K2)	**1**	

Chapter 7 TOTAL	7 questions

ATM TOTAL	58 mandatory + 7 selectable = 65 questions

4.2. Example Advanced Test Analyst Exam Structure

The table below contains an example of how a valid Advanced Test Analyst examination could be constructed by following the rules listed in section 3.5.3. Selectable LO questions are indicated in BOLD text.

Chapter & LO	Number of Questions per LO	Number of questions per Chapter
Chapter 1		
TA-1.2.1 (K2)	1	
TA-1.3.1 (K2)	2	
TA-1.4.1 (K4)	--	In addition to the mandatory questions specified by individual LO (6), a minimum of THREE questions MUST be written against three of the remaining six selectable LOs.
TA-1.5.1 (K2)	1	
TA-1.5.2 (K4)	1	
TA-1.6.1 (K2)	--	Selectable LOs are indicated in bold text.
TA-1.7.1 (K3)	1	
TA-1.8.1 (K2)	3	
TA-1.9.1 (K2)	1	
Chapter 1 TOTAL		10 questions
Chapter 2		
TA-2.2.1 (K2)	1	In addition to the mandatory questions specified by individual LO (2), a minimum of ONE question MUST be written against one of the remaining two selectable LOs.
TA-2.3.1 (K2)	--	
TA-2.4.1 (K3)	2	Selectable LOs are indicated in bold text.
Chapter 2 TOTAL		3 questions
Chapter 3		
TA-3.2.1 (K2)	1	
TA-3.2.2 (K3)	3	
TA-3.2.3 (K3)	3	
TA-3.2.4 (K3)	3	
TA-3.2.5 (K3)	3	
TA-3.2.6 (K3)	3	In addition to the mandatory questions specified by individual LO (29), a minimum of TWO questions MUST be written against two of the remaining five selectable LOs.
TA-3.2.7 (K3)	3	
TA-3.2.8 (K3)	3	
TA-3.2.9 (K2)	--	Selectable LOs are indicated in bold text.
TA-3.2.10 (K3)	1	
TA-3.2.11 (K4)	3	
TA-3.3.1 (K2)	--	
TA-3.3.2 (K4)	--	
TA-3.4.1 (K2)	1	

TA-3.4.2 (K3)	1	
TA-3.4.3 (K4)	3	
Chapter 3 TOTAL		31 questions

Chapter 4		
TA-4.2.1 (K2)	**1**	In addition to the mandatory questions specified by individual LO (3), a minimum of ONE question MUST be written against one of the remaining three selectable LOs.
TA-4.2.2 (K2)	--	
TA-4.2.3 (K2)	**1**	Selectable LOs are indicated in bold text.
TA-4.2.4 (K4)	3	
Chapter 4 TOTAL		5 questions

Chapter 5		
TA-5.1.1 (K2)	--	In addition to the mandatory questions specified by individual LO (4), a maximum of ONE question MAY be written for the selectable LO.
TA-5.2.1	2	
TA-5.2.2	2	No selectable LOs were included.
Chapter 5 TOTAL		4 questions

Chapter 6		
TA-6.2.1 (K2)	**1**	In addition to the mandatory questions specified by individual LO (3), a minimum of ONE question MUST be written against one of the remaining three selectable LOs.
TA-6.3.1 (K2)	**1**	
TA-6.4.1 (K4)	3	Selectable LOs are indicated in bold text.
TA-6.5.1 (K2)	--	
Chapter 6 TOTAL		5 questions

Chapter 7		
TA-7.2.1 (K2)	**1**	There are no mandatory questions specified by individual LO for this chapter, but a minimum of ONE question MUST be written against one the three selectable LOs.
TA-7.2.2 (K2)	--	
TA-7.2.3 (K2)	**1**	Selectable LOs are indicated in bold text.
Chapter 7 TOTAL		2 questions
TA TOTAL		47 mandatory + 13 selectable = 60 questions

4.3. Example Advanced Technical Test Analyst Exam Structure

Please refer to section 3.5.4 for information on how to construct this exam. As there are no selectable LOs indicated for this structure, the table in section 3.5.4 specifically defines the structure.