

# IT4IT™ Foundation Study Guide

Preparation for the IT4IT Part 1 Examination



Andrew Josey & Michelle Supper

IT4IT™

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# Study Guide

# IT4IT™

# Foundation

Preparation for the IT4IT Part 1 Examination

Prepared by Andrew Josey & Michelle Supper



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Comments relating to the material contained in this document may be submitted to:

The Open Group  
Apex Plaza  
Reading  
Berkshire, RG1 1AX  
United Kingdom  
or by electronic mail to: [ogspeccs@opengroup.org](mailto:ogspeccs@opengroup.org)

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# Preface

## **This Document**

This book is a Study Guide for IT4IT™ Foundation. It is based on The Open Group Certification for People: IT4IT™ Conformance Requirements (Level 1). It gives an overview of every learning objective for the IT4IT Foundation certification syllabus and in-depth coverage on preparing and taking the IT4IT Part 1 Examination. It is specifically designed to help individuals to prepare for certification.

The Open Group Certification for People: IT4IT Certification Program is intended to make certification available to people who have knowledge and understanding of the IT4IT Reference Architecture.

The IT4IT Reference Architecture presents the IT service lifecycle in a new and powerful way, and provides a foundation on which to base your IT operating model. Adoption of the Reference Architecture as part of the IT operating model can accelerate IT's transition to becoming a service broker to the business. It can also address the strategic challenges brought about by the implementation of mobility, cloud, big data, security, and Bring Your Own Device (BYOD).

The use of the IT4IT approach allows organizations to:

- Focus on the true role of IT: to deliver services that make the company more competitive and innovative.
- Support the multi-sourced service economy, enabling new experiences in driving the self-sourcing of services to power innovation.

The audience for this Study Guide includes:

- Individuals who require a basic understanding of the IT4IT Reference Architecture
- IT Professionals/Practitioners who are responsible for delivering services in a way that is flexible, traceable, and cost-effective
- IT Professionals who want to achieve a higher-level certification in the IT4IT Certification Program (when available) in a stepwise approach

A prior knowledge of IT Service Management is advantageous but not required. While reading this Study Guide, the reader should also refer to the IT4IT documentation available at [www.opengroup.org/it4it](http://www.opengroup.org/it4it).

The Study Guide is structured as follows:

- Chapter 1 (Introduction) provides a brief introduction to The Open Group IT4IT Certification Program, specifically the IT4IT Foundation certification, and explains how to use this Study Guide as well as how to prepare for the examination.
- Chapter 2 (IT4IT Overview) provides a first introduction to the IT4IT Reference Architecture, the IT Value Chain, and the four value streams that make up with IT Value Chain.
- Chapter 3 (Key Terminology) describes the terminology of the IT4IT Reference Architecture.
- Chapter 4 (Basic Concepts) describes the scope, value propositions, and typical activities of the four value streams, as well as the basic concepts of the IT4IT Reference Architecture, including the Service Model, the Information Model, and the Functional Model.
- Chapter 5 (IT4IT Core) describes the five abstraction levels of the IT4IT Reference Architecture and the key concepts of each level.
- Chapter 6 (The Strategy to Portfolio Value Stream) describes the objectives, benefits, Key Performance Indicators (KPIs), functional components, and data objects of the Strategy to Portfolio Value Stream.
- Chapter 7 (The Requirement to Deploy Value Stream) describes the objectives, benefits KPIs, functional components, and data objects of the Requirement to Deploy Value Stream.
- Chapter 8 (The Request to Fulfill Value Stream) describes the objectives, benefits, KPIs, functional components, and data objects of the Request to Fulfill Value Stream.
- Chapter 9 (The Detect to Correct Value Stream) describes the objectives, benefits, KPIs, functional components, and data objects of the Detect to Correct Value Stream.
- Appendix A (Answers to Exercises and Test Yourself Questions) provides the answers to the Exercises and Test Yourself sections provided at the end of each chapter.
- Appendix B (Test Yourself Examination Paper) provides a Test Yourself examination to allow you to assess your knowledge of the

IT4IT Reference Architecture and readiness to take the IT4IT Part 1 Examination.

- Appendix C (Test Yourself Examination Paper Answers) provides the answers to the examination in Appendix B.
- Appendix D (Functional Component & Data Object Summary) provides summary tables of the IT4IT Reference Architecture functional components and data objects.
- Appendix E (IT4IT Foundation Certification Syllabus) provides the IT4IT Foundation certification syllabus.

### **How to Use this Study Guide**

The chapters in this Study Guide are arranged to provide coverage of the IT4IT Foundation certification syllabus (see Appendix E) and should be read in order. However, you may wish to use this Study Guide during review of topics with which you are already familiar, and it is certainly possible to select topics for review in any order. Where a topic requires further information from a later part in the syllabus, a cross-reference is provided.

Each chapter includes:

- “Key Learning Points” and “Summary” sections to help you to easily identify what you need to know for each topic.
- A “Recommended Reading” section that indicates the relevant sections in the IT4IT Reference Architecture that can be read to obtain a further understanding of the subject material.
- “Exercises” and “Test Yourself Questions” sections that will help you to check your understanding of the chapter, and prepare for the IT4IT Part 1 Examination. These include open questions, simple exercises, and multiple-choice format questions where you must identify one correct answer.

Finally, at the end of this Study Guide is a “Test Yourself” practice examination paper that you can use to test your readiness to take the official IT4IT Part 1 Examination.

### **Conventions Used in this Study Guide**

The following conventions are used throughout this Study Guide in order to help identify important information and avoid confusion over the intended meaning.

- Ellipsis (...)  
Indicates a continuation; such as an incomplete list of example items, or a continuation from preceding text.
- **Bold**  
Used to highlight specific terms.
- *Italics*  
Used for emphasis. May also refer to other external documents.
- *(Syllabus Reference: Unit X, Unit Name, Learning Outcome Y: Statement)*  
Used at the start of a text block to identify the IT4IT Foundation certification syllabus learning outcome. For example, *Syllabus Reference: Unit 2, Definitions, Learning Outcome 1* refers to the first learning outcome in Unit 2. If a learning outcome has subsidiary outcomes then a notation Y-N is used; e.g., 1-1, 1-2.

Readers should note that due to the limited number of colors used in this Study Guide, the model diagrams use a different color scheme to the official IT4IT documentation. Readers are recommended to download the free reference cards from The Open Group (see References).

In addition to typographical conventions, the following conventions are used to highlight segments of text:



A Note Box is used to highlight useful or interesting information.



A Tip Box is used to provide key information that can save you time or that may not be entirely obvious.

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- Facilitate interoperability, develop consensus, and evolve and integrate specifications and open source technologies
- Offer a comprehensive set of services to enhance the operational efficiency of consortia
- Operate the industry's premier certification service

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## About the Authors

### **Andrew Josey, The Open Group**

Andrew Josey is VP Standards and Certification, overseeing all certification and testing programs of The Open Group. He also manages the standards process for The Open Group. Since joining the company in 1996, Andrew has been closely involved with the standards development, certification, and testing activities of The Open Group. He has led many standards development projects including specification and certification development for the ArchiMate®, TOGAF®, POSIX®, and UNIX® programs.

He is a member of the IEEE, USENIX, UKUUG, and the Association of Enterprise Architects (AEA). He holds an MSc in Computer Science from University College London.

### **Michelle Supper, The Genesis Housing Association**

Following a PhD in X-ray astrophysics, Michelle started participation in The Open Group, and turned her analytical skills to architecture. Specializing in remedial architectures in MoDAF and the TOGAF® standard, she is often relied upon to resolve tricky problems, and rescue stalled projects. She has served as system architect for three major defense programs, and as a consultant Enterprise Architect for several projects in the UK Home Office, Ministry of Justice, and Ministry of Defence. Michelle is currently introducing the TOGAF standard to the Genesis Housing Association, where she has been the Enterprise Architect since November 2015.



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# References

The following documents are referenced in this Study Guide:

- ArchiMate® 2.1 Specification, Open Group Standard (C13L), December 2013, published by The Open Group; refer to: [www.opengroup.org/bookstore/catalog/c13l.htm](http://www.opengroup.org/bookstore/catalog/c13l.htm).
- M. Porter: Competitive Advantage: Creating and Sustaining Superior Performance, ISBN: 978-0684841465, Free Press; 1st Edition (June 1998).
- The Open Group IT4IT™ Reference Architecture, Version 2.0, Open Group Standard, C155, October 2015, published by The Open Group; refer to: [www.opengroup.org/bookstore/catalog/c155.htm](http://www.opengroup.org/bookstore/catalog/c155.htm).
- The Open Group IT4IT™ Reference Architecture, Version 2.0 Reference Cards, N150, October 2015, published by The Open Group; refer to: [www.opengroup.org/bookstore/catalog/n150.htm](http://www.opengroup.org/bookstore/catalog/n150.htm).
- The Open Group® Certification for People: IT4IT™ Conformance Requirements, Version 1.0, X1602, February 2016, published by The Open Group; refer to: [www.opengroup.org/bookstore/catalog/x1602.htm](http://www.opengroup.org/bookstore/catalog/x1602.htm).
- Unified Modeling Language (UML), Object Management Group (OMG); refer to: [www.uml.org](http://www.uml.org).

The following web links are referenced in this Study Guide:

- The Open Group IT4IT Certification website: [www.opengroup.org/certifications/it4it](http://www.opengroup.org/certifications/it4it).

## Chapter 1

# Introduction

### 1.1 Key Learning Points

This document is a Study Guide to The Open Group Certification for People: IT4IT Certification Program.

It covers every learning objective of the IT4IT Foundation certification syllabus, and has learning resources that have been specifically designed to prepare individuals who wish to take and pass the IT4IT Part 1 Examination.

This first chapter will familiarize you with The Open Group IT4IT Certification Program and its principles, and also provide important information about the structure of the examination.

The objectives of this chapter are as follows:

- To provide an understanding of IT4IT certification and why you should become certified.
- To learn key facts about the IT4IT Part 1 Examination.

### 1.2 The Open Group IT4IT Certification Program

*(Syllabus Reference: Unit 9, IT4IT Certification Program, Learning Outcome 1: You should be able to explain The Open Group IT4IT Certification Program and distinguish between the levels for certification.)*

Certification is available to individuals who wish to demonstrate that they have attained the required knowledge and understanding of the IT4IT Reference Architecture.

At the time of writing there is a single level defined for IT4IT certification:

- Level 1: IT4IT Foundation

### 1.2.1 Program Vision and Principles

The vision for the program is to define and promote a market-driven education and certification program to support the IT4IT Reference Architecture. The program has been designed with the following principles in mind:

Table 1: Certification Principles

Principle	Certification Aspects
Openness	The program is open to applicants from all countries.
Fairness	Certification is achieved only by passing an examination that is equivalent to that taken by any other candidate.
Market Relevance	The program is structured to meet the perceived needs of the market.
Learning Support	Training courses are provided by third parties.
Quality	Training course providers may choose to seek Open Group accreditation for their courses. Accredited courses are listed on The Open Group website. Only accredited courses may use The Open Group logo.
Best Practice	The program is designed to follow industry best practice for equivalent certification programs.

### 1.2.2 Certification Document Structure

The documents available to support the program are as shown in Figure 1.

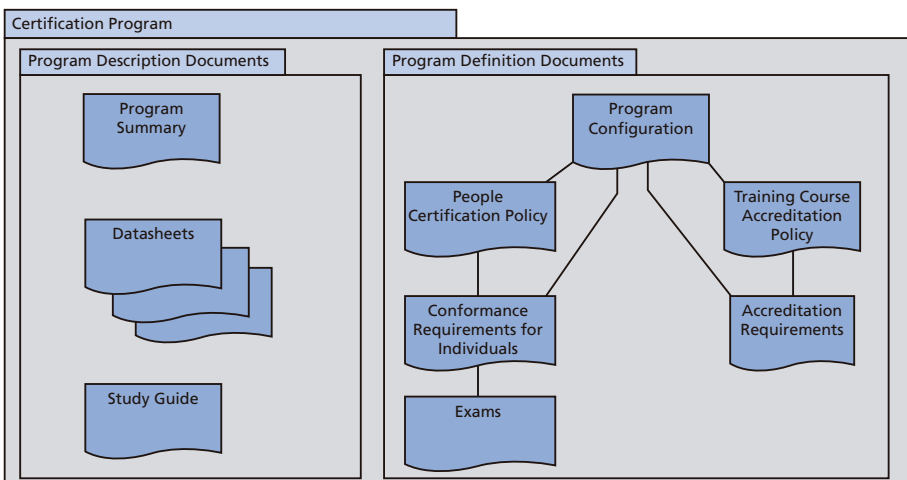


Figure 1: Certification Document Structure