

Information Technology Architect Certification

Conformance Requirements (Multi-Level)

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1. BACKGROUND

1.1 Introduction

The Open Group IT Architect Certification Program (the Program) is designed to validate the existence of those qualities and skills in a professional that enable the effective practice of IT architecture. The Program is skills and experience-based and goes beyond validating the mastery of any specific knowledge base.

The Program includes a framework for accreditation of third parties to establish IT Architect certification programs affiliated to The Open Group. The framework of accreditation and certification is specifically intended to standardize the process and criteria for IT Architect professional certification and establish a foundation for the required skills and experience necessary to achieve such a distinction. The Program was designed to be flexible and extensible so that the framework may be adopted by any industry, country, or organization.

The Open Group supports two different routes to IT Architect certification:

- The first route is *direct* certification by The Open Group.
- The second is *indirect*, through third-party programs accredited by The Open Group.

The Conformance Requirements for IT Architect certification apply equally to the direct and indirect routes to certification.

Beyond the Conformance Requirements for a Certified IT Architect, third parties operating Accredited Certification Programs (ACPs) may levy additional requirements on their Candidates in order to satisfy their internal skills requirements. Such additional requirements are called *extended certification* requirements or simply *extended requirements*. For example, extended certification requirements might include experience with a proprietary corporate method or appropriate industry or cultural requirements.

The Program requires ACPs' extended certification requirements to be effectively documented and communicated within the accredited program. In addition, extended certification requirements must not relax the skills, experience, or process requirements set forth by the framework established herein.

The Open Group direct certification route may, at some time in the future, also include extended requirements, but these will always be optional to ensure the baseline requirements of the framework remain common across the profession.

The Program is based upon four key documents:

- 1. The *Certification Policy*, which sets out the policies and processes by which an IT Architect may achieve certification
- 2. The *Conformance Requirements* (this document), in which are documented the skills and experience that a Certified IT Architect must possess to achieve certification at the different levels available within the Program
- 3. The *Accreditation Policy*, which sets out the policies and processes by which an Organization may achieve accreditation

4. The *Accreditation Requirements*, in which the criteria that must be met by an ACP are documented

1.2 Levels of Certification

The Open Group IT Architect Certification Program recognizes three levels of certification:

- Level 3: Distinguished Certified IT Architect (advances the state-of-the-art)
- Level 2: Master Certified IT Architect (able to perform independently and take responsibility for delivery of systems and solutions as lead architect)
- Level 1 Certified IT Architect (able to perform with assistance/supervision, with a wide range of appropriate skills, as a contributing architect)

This current version of this document defines the skills and experience required to achieve Level 1 and Level 2.

The requirements that must be met to achieve Level 3 certification will be published in a subsequent version of this document.

1.3 Evaluation of Conformance

The process for evaluating conformance starts in all cases with a review of the Candidate's Certification Package by the Certification Authority and the members of the Certification Board.

This may be followed by an interview as shown in the following table:

	Level 1	Level 2
Initial Certification	Telephone interview by Certification Board	Face-to-Face Interview by Certification Board
Re-Certification	No Interview	Telephone Interview by Certification Board

1.4 Program Logo

IT Architects certified within the Program are able to use an Open Group logo on their business cards, etc. In accordance with the Trademark License Agreement and Trademark Usage Guide, the logos that may be used include a label (tag line).

The labels for the three levels are as follows:

Level	Label
3	Distinguished Certified IT Architect
2	Master Certified IT Architect
1	Certified IT Architect

1.5 Migration

Version No.	Date	Change	
1.2	July 2005	First publication. Requirements for Level 2 certification.	
2.0	January 2006	Addition of Level 1 certification to help Candidates decide which level if appropriate to them. Some corrections have been applied as a result of Problem Reports, which may be found at the Certification Authority's web site, as have a number changes to improve readability.	
2.01	May 2008	Implementation of Corrigendum U067 that addresses PR15 (Inconsistency in the number of required Experience Profiles for Level 1 Certification) and PR16 (PD03 may be interpreted too narrowly).	
2.2	November 2010	Removes the overlap between EC04 and the core foundation skill CFS12 (Apply Methods) by consolidating EC04 into CFS12 and removing EC04, as described in PR0043. There is no difference in the skills and experience required for certification, but the revised structure is considered easier for Candidates to understand. Candidates may use the previous version of the Certification Package templates for a period of six (6) months from the date of publication of this document. Covers the recognition of the Microsoft MCA Infrastructure Architect and Solution Architect qualification. Addresses PR0021 in EC01.	

1.6 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 Certification Program (ACP)	An IT Architect certification program, operated by a third party, that has been assessed by The Open Group as meeting the requirements set out in the Accreditation Policy and which has been entered into the Accreditation Register.		
	Depending on context, the term is also used to mean the company or organizational unit that operates an Accredited Certification Program.		
Application Form	The form completed by the Candidate to apply for certification.		
Candidate	The individual who is in the process of being certified.		
Certificate	The document made available to Candidates who have successfully completed the certification process and whose details have been entered into the Directory of Certified IT Architects.		
Certification Agreement	The agreement between the Candidate and the Certification Authority that defines the certification service to be provided and contains the legal commitment by the Candidate to the conditions of the certification program.		

Certification Authority (CA)	The Organization that manages the day-to-day operations of the certification program – in this case The Open Group.		
Certification Board	The group of subject matter experts appointed by the Certification Authority or by an Accredited Certification Program to assess applications for certification.		
Certification Package	The detailed description of the skill levels attained and experience undergone that provides the Certification Authority or Accredited Certification Program with sufficient information to determine whether the Candidate meets the Conformance Requirements. The Certification Package is never made public.		
Certification Program Guide	The document that describes the processes for how a Candidate achieves certification. The Certification Program Guide is used in conjunction with this Certification Policy document. This Certification Policy document defines what a Candidate must do, whereas the Certification Program Guide provides detailed instructions on how a Candidate gets certified and where to obtain relevant information and documents.		
Certification Record	The information identifying the Candidate, including contact details, and describing the way in which the Candidate meets the Conformance Requirements, including which optional criteria are met. The Certification Record of a Certified IT Architect is made available by the Certification Authority at the discretion of the Certified IT Architect.		
Certification System Deficiency (CSD)	An agreed error in the Certification System, which is inhibiting the certification process. A Certification System Deficiency is one possible outcome of a Problem Report.		
Certified IT Architect	A Candidate that has successfully completed the certification process and who has been notified in writing by the Certification Authority that certification has been achieved.		
Conformance Requirements	A definition of the mandatory and optional criteria a person must meet in order to be eligible for certification.		
Direct Certification	Direct certification is achieved by applying directly to The Open Group, or to a third party operating the Program on behalf of The Open Group, and successfully completing the certification process.		
	Direct certification is open to any Candidate, regardless of who they work for, or where in the world they live and work.		
Directory of Certified IT Architects	The official list of all Certified IT Architects, which is maintained by the Certification Authority and made publicly available via the Internet.		
Evaluation Process	The documented process by which the Certification Authority determines whether a Candidate has met the Conformance Requirements. The Evaluation Process consists of evaluation procedures and criteria.		

Evaluation Process Deficiency (EPD)	An agreed error in the Evaluation Process used to evaluate whether a Candidate meets the Conformance Requirements, which impacts certification. An Evaluation Process Deficiency is one possible outcome of a Problem Report.
Indirect Certification	Indirect certification is achieved by applying to an Accredited Certification Program and successfully completing the certification process. To be eligible for certification by a particular Accredited Certification Program, Candidates must work for the Organization
	running the Accredited Certification Program.
Interpretation (INT)	Decision made by the Specification Authority that elaborates or refines the meaning of the Conformance Requirements, or a standard or specification referenced within the Conformance Requirements. An Interpretation is one possible outcome of a Problem Report.
Problem Report (PR)	A question of clarification, intent, or correctness of the Conformance Requirements, the Evaluation Process, or the Certification System, which, if accepted by the Specification Authority, will be resolved into an Interpretation, Evaluation Process Deficiency, or Certification System Deficiency, respectively.
Program Logo	The logo or other trademarks as designated from time to time by The Open Group for use within The Open Group IT Architect Certification Program in relation to Certified IT Architects. The Program Logo artwork contains a tag line that describes the level of certification achieved.
Specification Authority (SA)	The Open Group IT Architect Certification working group, or its successor, which is responsible for developing, maintaining, and interpreting the Conformance Requirements and Accreditation Requirements of The Open Group IT Architect Certification Program.
Trademark License Agreement (TMLA)	The agreement between the Certified IT Architect and The Open Group that contains the legal commitment by the Candidate to the conditions for use of the Program Logo.

2. IT ARCHITECT ROLES AND RESPONSIBILITIES (INFORMATIVE)

An IT Architect defines solutions to client business problems through the reasoned application of information technology.

Those solutions are documented as architectures and can include systems, applications, and process components. They may also involve the application and integration of a broad variety of products; technologies, and services; various systems and applications architectures; and diverse hardware and software components.

2.1 Characteristics of the IT Architect

The key skill and contribution IT Architects bring to their pursuits is the creation of architectures that address business problems.

Effective IT Architects typically possess and exhibit the following:

Skills and experience producing architectures	IT Architects develop architectures; the definition of the structures of an IT solution to a business problem. In order to accomplish this they must be proficient at the techniques that go into the formulation of architectures, including requirements discovery and analysis, application of abstraction, formulation of solution context, solution alternatives identification and assessment, technology selection, and architectural configuration.	
Appropriate technical skills and experience, including technical breadth	IT Architects require practical skills and experience with many application and infrastructure (operational) products, technologies, and services. While often relying on professionals with specialized skills for the construction, implementation, and operational aspects of solution delivery in many of these areas, the IT Architect must have enough skills and experience across them to be able to successfully architect appropriate solutions of heterogeneous components.	
	Beyond that base of technical breadth, effective IT Architects usually possess additional architectural skills in one or more disciplines.	
Disciplined, method- driven execution	The IT Architect uses formal methods to guide and drive the development of solutions, the management of their work, and the production of their deliverables.	
Full lifecycle experience	In the development of architectures that address business problems, the IT Architect's work is primarily performed at the front end of the solution lifecycle. Full lifecycle experience – in particular, the knowledge and appreciation of the construction, implementation, and management aspects of the solution lifecycle – enables the IT Architect to produce solution designs that are truly viable and that can be successfully constructed, implemented, operated, and managed.	
Leadership	The effective IT Architect is a leader, providing knowledge, technical, and team leadership skills in their work, to their clients, and for their teams.	
Strong personal and professional skills	The IT Architect must have a high level of communications, consulting, and client relationship skills. The IT Architect must be able to clearly communicate complex technical and business concepts, both to clients (internal or external) and to team members, and to negotiate change. Problem-solving of client business and technical issues is a principle role of the IT Architect, and he or she must be capable of effectively identifying and framing problems, leading the collection of elements of information, and integrating this information to produce timely and thoughtful decisions.	

2.2 Types of IT Architects – Sample Architecture Disciplines

This version of the Conformance Requirements document does not set any requirements for architecture disciplines, but the Program is expected to be revised to include disciplines as specific options in the near future.

As part of those future discipline requirements, IT Architects will be expected to demonstrate a higher level of proficiency in one of several areas of architectural focus that reflect organizational requirements and IT industry views, in addition to the fundamental skills defined in this Conformance Requirements document. The types and requirements of the IT Architect disciplines will evolve with the needs of the IT industry and will be updated accordingly. Examples of such potential disciplines against which Candidates might obtain certification include:

- Enterprise Architecture
- Business Architecture
- Information Architecture
- Application Architecture
- Technology Infrastructure Architecture

2.2.1 Defining Additional Disciplines

Accredited Certification Programs (ACPs) will be able to define additional architectural disciplines against which they can certify individuals. In so doing, the description of the discipline:

- Must be well-formed and supported by the industry or the business needs of the Organization running the ACP
- Must not relax the skills, experience, or process requirements of the Program
- Must be ratified by The Open Group as part of the accreditation process

2.3 Example IT Architect Roles

While IT Architects share the same overall skills or characteristics associated with the profession and one or more disciplines, the role they perform may vary based on more tactical business-driven requirements from their organization or work activity. Some of these roles are described below.

2.3.1 Business Analyst

The IT Architect may lead and coordinate activities to understand a client's business problem and translate them into requirements that can be implemented and verified.

2.3.2 Methodologist

In this role the IT Architect leads customers in selecting, employing, and influencing the use of appropriate methods and design tools to achieve the desired business and technical results.

2.3.3 Project Advisor

The IT Architect may also lead project technical teams in ensuring that the business vision is free of architectural errors, and observing the deployed system to harvest lessons for future projects.

2.3.4 Solutions Designer

In this role the IT Architect analyzes a customer's business and IT challenges and designs a comprehensive solution that integrates smoothly into the customer's environment, and is checked carefully for reliability, availability, and scalability.

2.3.5 Technology Advisor

The IT Architect may also lead architectural engagements in promoting the cause of technology, and of specific technologies, in order to achieve buy-in from the enterprise's management and IT communities, seeking to create new opportunities and business relationships.

3. CONFORMANCE REQUIREMENTS (NORMATIVE)

The Conformance Requirements for a Certified IT Architect are broken down as follows:

- Core Foundation skills
- Discipline skills
- Experience requirements

Requirements that are stated as applying to Certified IT Architects apply equally to Candidates for certification and *vice versa*.

3.1 Skill Levels

For the Core Foundation skills and Discipline skills, Candidates must meet or exceed the minimum skill level defined for each of the skills.

Skill levels are defined as follows:

Table 1: Skill Levels and Proficiency Ratings

Skill Level	Proficiency	Experience
Limited	Limited or no knowledge	None
General	General conceptual knowledge only	Limited – read about it, some education
Applied	Applied knowledge	Performs with supervision or mentoring
Deep	In-depth knowledge	Mastered the current state-of-the-art and is able to perform without supervision
Expert	Expert knowledge	Advances the state-of-the-art

3.2 Core Foundation Skills

The following is a list of the Core Foundation skills for The Open Group IT Architect Certification Program. Core Foundation skills are also referred to as *framework skills* or *foundation skills*.

The Core Foundation skills are categorized into People skills, Project Management skills, and Architecture skills.

The Candidate must be able to document that they have demonstrated these skills at the required level (or higher) repeatedly and successfully.

Table 2: Core Foundation Skills

Ref	Category	Skill	Description	Required Skill Level: Level 1	Required Skill Level: Level 2
CFS01	People	Apply Communication Skills	Demonstrate good written communications, including the use of proper grammar, spelling, document organization, clarity, and use of content appropriate for the audience.	Applied	Deep
			Demonstrate good verbal communications, including strong eye contact (where culturally appropriate), responsiveness to questions, ability to stay on subject, use of good feedback, and follow-up questions, etc., so that effective two-way communications is demonstrated.		
CFS02	People	Lead Individuals & Teams	Given a scope of architectural work to be accomplished, plan the work, form a team to perform the work, and guide the team in performing the work to completion.	Applied	Deep
CFS03	People	Perform Conflict Resolution	Mediate opposing viewpoints and negotiate equitable solutions to ensure successful and stable outcomes.	General	Applied
CFS04	Project Management	Manage Architectural Elements of an IT Project Plan	Given a project plan, identify those elements of the plan that put the integrity of the architectural elements at risk and manage those elements through to the agreement by the client/project manager that the project has been successfully completed.	Applied	Deep

Ref	Category	Skill	Description	Required Skill Level: Level 1	Required Skill Level: Level 2
CFS05	Business	Understand Business Aspects	Understand the stakeholders' business needs and how they relate to their business and mission.	Applied	Applied
CFS06	Architecture	Develop IT Architecture	Given one or more business requirements, create the structures of a solution that can be validated to meet those requirements.	Applied	Deep
CFS07	Architecture	Use Modeling Techniques	Use modeling techniques – such as use case, scenario modeling, prototyping, benchmarking, and performance modeling – to describe the problem space, to size the solution and to validate that the proposed architecture addresses the business requirements.	Applied	Deep
CFS08	Architecture	Perform Technical Solution Assessments	Given a technical solution and the underlying business requirements that drove its development, assess the technical integrity and risks inherent in that solution in such a way that the recommendations and findings are appropriate and implementable.	Applied	Deep
CFS09	Architecture	Apply IT Standards	Given project requirements that call for or would benefit from the use of standards, establish, implement, and enforce appropriate standards in the creation and implementation of the solution to meet those requirements.	Applied	Deep

Ref	Category	Skill	Description	Required Skill Level: Level 1	Required Skill Level: Level 2
CFS10	Architecture	Establish Technical Vision	Given requirements and a list of stakeholders, identify approaches, tools, techniques, and technologies to meet the requirements, and explain the present and future rationale so that stakeholders accept the choices and agree with the rationale.	Applied	Deep
CFS11	Architecture	Use of Techniques	Given an architectural question, use and apply various techniques, such as data collection, data analysis, hypothesis, and solution formulation, to produce a supportable answer to the question.	Applied	Deep
CFS12	Architecture	Apply Methods	Given a work effort, adapt, apply, and enforce the use of a method that meets the method recognition criteria in Section 6 of the Conformance Requirements to successfully create architectural work products that meet the requirements of the work effort.	Applied	Deep
			Demonstrated ability to follow a recognized method ensures repeatability of delivery and success.		
			Candidates are not required to have used more than one recognized method.		
CFS13	Architecture	Define Solution to Functional and Non- Functional Requirements	Given the functional and non-functional requirements, define a solution that meets the stated requirements using the Organization's and industry standard procedures and tools.	Applied	Deep

Ref	Category	Skill	Description	Required Skill Level: Level 1	Required Skill Level: Level 2
CFS14	Architecture	Manage Stakeholder Requirements	Given approved business goals, objectives, and constraints, document, clarify, refine, detail, and prioritize functional and non-functional requirements.	Applied	Deep
CFS15	Architecture	Establish Architectural Decisions	Determine, document, and communicate architectural decisions to support and rationalize the design of the solution.	Applied	Deep
CFS16	Architecture	Validate Conformance of the Solution to the Architecture	Given a set of requirements, define and execute strategies and plans for ensuring and demonstrating that the solution satisfies the documented architecture.	Applied	Deep
CFS17	Architecture	Perform as Technology Advisor	Maintain IT industry knowledge to advise on technical trends and techniques and apply them to the development of solution designs.	Applied	Deep

3.3 Discipline Skills

No Discipline skills are defined in this version of the Program.

3.4 Experience Criteria

Certified IT Architects must be able to demonstrate that they have at least the following experience:

Table 3: Experience Criteria

Experience Category	Requirement: Level 1	Requirement: Level 2	How Documented by the Candidate for Initial Certification at Each Level
EC01 Experience Producing Architectures	At least two (2) years' experience developing IT architectures with supervision; for example, through mentoring. Two years of experience developing IT architectures means 24 months of full-time equivalent engagement with the architectural aspects of one or more projects or engagements. Guidance to Candidates: The Program is intended to recognize those individuals that possess both the required skills and a level of experience that suggests that they are capable of successfully contributing to IT architecture projects. Candidates for Level 1 Certification (Certified IT Architect) are expected to have the ability to produce architectures with occasional assistance from more experienced IT Architects (e.g., Master or Distinguished Level IT Architects).	At least three (3) years of experience producing IT architectures. Three years of experience producing IT architectures means 36 months of full-time equivalent engagement with, and accountability for, the architectural aspects of one or more projects or engagements. Guidance to Candidates: The Program is intended to recognize those individuals that possess both the required skills and a level of experience that demonstrates that they have mastered the ability to successfully produce IT architectures. Candidates for Level 2 Certification (Master Certified IT Architect) are expected to have taken responsibility for producing successful IT architectures with occasional assistance from less experienced IT Architects where appropriate.	Application Package must contain a list of their experiences with start and end dates of involvement. Candidates should endeavor to provide references who can validate their participation in listed experiences. For direct certification, references may be customers/clients or Master Certified IT Architects who are not the Candidate's immediate manager. For indirect certification, references may be managers, customers/clients, or Master Certified IT Architects. Reference may be made to the projects in the Experience Profiles (described below).

Experience Category	Requirement: Level 1	Requirement: Level 2	How Documented by the Candidate for Initial Certification at Each Level
EC02 Breadth of Architectural Experience	 Experience producing IT architectures which: Involve the application and integration of different products, technologies, and services from either the enterprise or solution perspective, and which: Encompass both functional and nonfunctional components within different elements of IT architecture (Business, Application, Infrastructure, Information) Guidance to Candidates: A Certified IT Architect has a variety of IT architecture experience and contributes to the development of correct and complete solutions to business problems. 	 Experience architecting IT solutions which: Involve the application and integration of a broad variety of products, technologies, and services from either the enterprise or solution perspective Encompass both functional and nonfunctional components across multiple elements of IT architecture in each project (Business, Application, Infrastructure, Information) Guidance to Candidates: A Master Certified IT Architect has experience integrating multiple elements of IT architecture to enable the development of correct and complete solutions to business problems. 	Application Package must include a set of Experience Profiles, each of which demonstrates that the Candidate satisfies the stated criteria. Reference may be made to sections within the Experience Profiles, or the Candidate may provide a detailed description of a work effort that demonstrates compliance with this criterion.

Experience Category	Requirement: Level 1	Requirement: Level 2	How Documented by the Candidate for Initial Certification at Each Level
EC03 Experience with different types of technologies and architectures	Experience working with more than one hardware and software platform. Guidance to Candidates: A Certified IT Architect has had exposure working with different software and hardware platforms. Through this experience, a Certified IT Architect can effectively make the decisions that most appropriately satisfy requirements and mitigate risk to the project.	Experience with multiple types of systems and application architectures, and multiple hardware and software platforms. Guidance to Candidates: A Master Certified IT Architect has had exposure working with different systems and application architectures. Through this experience, a Master Certified IT Architect can effectively make the decisions that most appropriately satisfy requirements and mitigate risk to the project.	The Application Package must contain a list of the types of systems, applications, hardware, and software platforms that the Candidate has worked with. Reference may be made to sections within the Experience Profiles, or the Candidate may provide a detailed description of a work effort that demonstrates compliance with this criterion.
EC04 Application of Methods	The criteria described in EC consolidated into CFS12.	004 in Version 2.1, and previo	us versions, has been
EC05	The criteria described in EC this version – see Section 4.		iment are covered elsewhere in
EC06 Full Lifecycle Involvement	Not Applicable to this level of certification. Guidance to Candidates: A Certified IT Architect is expected to gain full lifecycle experience subsequent to their certification, as they work towards achieving Master Certification.	The Candidate must have been responsible for the architecture definition activity of a project or engagement across the full lifecycle appropriate to that project or engagement, and must have been involved as an IT Architect, or in some other capacity working with others, to ensure the architecture has been realized. Participation in each phase of the lifecycle need not be as lead IT Architect. Guidance to Candidates: A Master Certified IT Architect is expected to have had full lifecycle experience.	The Application Package must identify one project or work effort in which the Candidate has performed architectural work across the full lifecycle from inception through to deployment. Reference may be made to sections within the Experience Profiles, or the Candidate may provide a detailed description of a work effort that demonstrates compliance with this criterion.

Experience Category	Requirement: Level 1	Requirement: Level 2	How Documented by the Candidate for Initial Certification at Each Level
EC07 Industry Knowledge	Demonstrate awareness of one or more industry sectors including the business, legal, and regulatory context.	Demonstrate expertise in one or more industry sectors, including the business, legal, and regulatory context.	Candidates must provide a written description of the activities through which they have acquired their industry sector knowledge.
	Guidance to Candidates: Certified IT Architects need to have up-to-date and relevant knowledge of the industry sectors in which they work.	Guidance to Candidates: Master Certified IT Architects need to have broad, up-to-date, and relevant expertise in the industry sectors in which they work, and must have applied that knowledge.	Reference may be made to sections within the Experience Profiles, or the Candidate may provide a detailed description of a work effort that demonstrates compliance with this criterion.
EC08 Knowledge of IT Trends	Demonstrate awareness of the significant trends in the IT domain. Guidance to Candidates: A Certified IT Architect needs to be aware of	Demonstrate knowledge of the significant trends in the IT domain. Guidance to Candidates: Master Certified IT Architects need to be	Candidates must provide a written description of the activities through which they have acquired their knowledge of market and technology trends.
	current significant market and technology trends.	aware of current significant market and technology trends and possess the ability to apply trends to architectural decisions.	Reference may be made to sections within the Experience Profiles, or the Candidate may provide a detailed description of a work effort that demonstrates compliance with this criterion.
			Experience Profiles should describe how industry sector knowledge has been deployed.

3.5 Professional Development

Ref	Description	Requirement: Level 1	Requirement: Level 2
PD01	Training in the design and engineering of IT architectures	Attendance at a taught course, or through self-study	Attendance at a taught course, or through self-study
PD02	Knowledge of the technology, trends, and techniques in the IT industry	Candidates are required to develop and maintain their knowledge of the technology, trends, and techniques in the IT industry.	Candidates are required to maintain their knowledge of the technology, trends, and techniques in the IT industry.

Ref	Description	Requirement: Level 1	Requirement: Level 2
PD03	Vertical industry knowledge (e.g., telecoms, financial, etc.)	Candidates are required to develop and maintain an understanding of the client's business as it pertains to the client's vertical industry (e.g., telecoms, financial, etc.). Candidates should endeavor to sustain this learning process during the time they are engaged with a client or produce architectures that are industry specific.	Candidates are required to maintain an understanding of the client's business as it pertains to the client's vertical industry (e.g., telecoms, financial, etc.). Candidates should be aware of the latest trends and techniques that may influence IT architectures for their customers within industry verticals. Candidates should endeavor to sustain this learning process during the time they are engaged with a client or produce architectures that are industry specific.
PD04	Skills and knowledge in IT architecture	Candidates must continually develop their skills and knowledge in IT architecture.	Candidates must continually develop their skills and knowledge in IT architecture.

3.6 Contributions to the IT Architect Community

Ref	Description	Requirement: Level 1	Requirement: Level 2
CC01	Contributions to the IT architecture profession	No Requirement	Candidates must make contributions to the IT architecture profession; for example, mentoring, publications, teaching, research collaboration, or participation in professional organizations.
CC02	Contribution to the IT architecture community	No Requirement	As part of their contribution to the community, Master Certified IT Architects are expected to be available to serve from time to time on Direct Certification Boards at the request of the Certification Authority. Such participation will be evaluated positively at re-certification.

Evidence of contribution to the community will be required to be documented in the Certification Package.

4. APPLICATION FOR CERTIFICATION

When applying for initial certification, or for certification at a new (higher) level, Candidates are required to create a Certification Package.

For *direct* certification, applications must be made using The Open Group Certification Package template and web site.

For *indirect* certification, applications must be made using the templates, forms, and processes of the Accredited Certification Program (ACP). The information required by an ACP may be a superset of The Open Group Certification Package template in order to support the extended requirements of an ACP.

In either case, the Certification Package will be made up of one or more templates that the Candidate will use to document how they meet the Core Foundation Skills and Experience Criteria described in this document. The Certification Package will also contain at least three (3) Experience Profiles, which will be the primary means by which a Candidate will demonstrate their experience.

4.1 Experience Profiles

An Experience Profile is a coherent written description of a project or architectural engagement (for example, enterprise architecture, solution architecture, or architectural framework) that provides a Candidate with the opportunity to show how they perform as an IT Architect, and enables a Certification Board to understand and question the Candidate's thought processes and decisions.

Candidates for Level 1 IT Architect Certification must provide two (2) Experience Profiles and candidates for Level 2 Master IT Architect Certification must provide three (3) Experience Profiles.

Each Experience Profile must describe a project undertaken within the eight (8) years preceding an application, at least one of which must have been undertaken in the last three (3) years. Projects over two (2) years long may be used for multiple Experience Profiles under either of the following conditions:

- The project had clearly-defined work efforts which took place in parallel, each with their own solution development and design activities and their own deliverables.
- The project had clearly-defined phases that were executed in succession, each with its own solution development and design activities and deliverables. Note that a second project phase that constructs and implements the solution developed by the first phase does not meet this requirement.

In either case, each profiled project entity must meet all of the Experience Profile criteria defined in Table 4 below.

Each Experience Profile must include:

- A description of the business purpose of the project
- A concise description of the project
- The Candidate's role
- The Candidate's period of involvement

Table 4 defines the attributes that must be present within Experience Profiles for the three levels of

certification, and against which the Experience Profiles will be evaluated.

Table 4: Required Attributes for Experience Profiles

Ref	Experience Profile Attribute	Description: Level 1	Description: Level 2
EXP01	Experience with Strategy/Design/ Implementation aspects of Solution	Experience must include the understanding and appreciation of the solution lifecycle from strategy, design, and implementation through to production, enabling the IT Architect to produce solution designs that are successful.	Experience must include the understanding and appreciation of the solution lifecycle from strategy, design, and implementation through to completion, enabling the IT Architect to produce solution designs that are successful.
EXP02	Key Decisions Made	Experience Profiles must contain a summary of the key architectural decisions made by the Candidate, the reasons for the decisions, and the alternatives that were considered.	Experience Profiles must contain a summary of the key architectural decisions made by the Candidate, the reasons for the decisions, and the alternatives that were considered.
EXP03	Demonstrated Architectural Capability	Produce architectures for elements of a solution that are relevant to the success of the project or activity.	Design sufficiently complex, challenging, and relevant architectures.
EXP04	Broad Technical Experience	Candidates must possess an evolving set of technical and architectural experiences obtained during the design, development, and deployment of key components on more than one software or hardware platform.	Candidates must have a broad set of technical and architectural experiences obtained during the design, development, and deployment of applications or systems on different platforms (software or hardware).
EXP05	Application of Tools and Methods	Demonstrated use of design/architecture methods and tools.	Demonstrated use of design/architecture methods and tools.

Ref	Experience Profile Attribute	Description: Level 1	Description: Level 2
EXP06	Demonstrated Success	Candidates must have acted in the role of IT Architect of at least two (2) successful architectural engagements or projects. The architectural artifacts produced by the Candidate must have been utilized in the implementation of the component or solution.	Candidates must have acted in the role of IT Architect of at least three (3) successful architectural engagements. At least two (2) of the three engagements must have been in connection with projects that met their acceptance criteria, or, in the case of an architectural framework, successfully adopted. (An architectural engagement may be an enterprise architecture, solution architecture, or architectural framework.)
EXP07	Perform as a Lead IT Architect	Not Applicable	Performed as a Lead IT Architect in the development of a major project or subsystem.

4.2 Evaluation Process

The Evaluation shall be conducted through a combination of audit of written documentation and a Certification Board interview. All applications must be readable, complete, and consistent.

For *direct* certification, applications must be made using The Open Group Certification Package template and web site.

For *indirect* certification, applications must be made using the templates and forms provided by the Accredited Certification Program (ACP). The information required by an ACP may be a superset of The Open Group Certification Package template in order to support the extended requirements of an ACP.

4.2.1 Evaluation of Core Foundation Skills

The Candidate must supply a written self-assessment of the level of their Core Foundation skills as listed in Section 3.2.

Candidates must be able to substantiate their self-assessment at a Certification Board interview.

A claim of "Expert" skill level must be accompanied by written justification and the Candidate must substantiate the claim at a Certification Board interview.

4.2.2 Evaluation of Discipline Skills

Disciplines are not addressed in this version of the Conformance Requirements document, but disciplines will be introduced in a subsequent version.

4.2.3 Evaluation of Experience Profiles

Candidates must provide evidence supporting their claim of meeting Experience Conformance Requirements.

Candidates must also submit three (3) Experience Profiles that document the Candidate's role in the development of an IT architecture that addresses the stated business problem. Each of the submitted Experience Profiles must include specific reference to the Experience Conformance Requirements listed in Section 3.4 and must meet the attributes defined in Table 4.

Candidates must be able to describe their roles and substantiate their claims at a Certification Board interview.

4.2.4 Evaluation of Professional Development

Candidates must provide a written description of their training or self-study in the design and engineering of IT architectures.

To demonstrate maintenance of their IT and vertical industry knowledge and to demonstrate their development of skills and knowledge in IT architecture, Candidates are required to provide a written description of the activities they undertake to these ends.

Examples of qualifying activities are conference attendance, personal reading, formal education, being mentored, attending training courses, and/or related professional memberships.

4.2.5 Evaluation of Contributions to the IT Architect Community

Candidates must provide a written description of their contributions to the IT architecture community.

5. APPLICATION FOR RE-CERTIFICATION

Although compliance with the applicable skill requirements continues at all times to be a Conformance Requirement of the Program, Candidates for re-certification are not required to demonstrate their continued compliance to the applicable skill requirements when re-certifying.

Candidates for re-certification must supply sufficient information to assure the Certification Authority and the Certification Board members that the applicable Conformance Requirements continue to be met and that they have continued to practice as an IT Architect since their initial certification or last recertification.

When applying for re-certification, Candidates are required to create and submit a Re-Certification Package.

For *direct* re-certification, applications must be made using The Open Group's Re-Certification Package template and web site.

For *indirect* re-certification, applications must be made using the templates and forms provided by the Accredited Certification Program (ACP). The information required by an ACP may be a superset of The Open Group Re-Certification Package template in order to support the extended requirements of an ACP.

In either case, the Re-Certification Package will be made up of one or more templates that the Candidate will use to document how they have continued to practice as an IT Architect since the initial certification or since the previous re-certification, as applicable. Evidence will also be required of continued Professional Development (PD02, PD03, PD04) and Community Contribution (CC01, CC02).

5.1 Evaluation Process

The Evaluation shall be conducted through a combination of audit of written documentation and a Certification Board interview. All applications must be readable, complete, and consistent.

6. RECOGNITION REQUIREMENTS FOR METHODS

Methods are evaluated and accepted as part of the certification process. The Certification Authority will maintain and make available a list of recognized methods that may be cited by certification Candidates.

Candidates for certification may also cite methods that are not listed, in which case the method will be evaluated for recognition and inclusion in the list of recognized methods.

Methods may be submitted for recognition with an application for direct certification, or by an Accredited Certification Program (ACP) either at the time of accreditation or subsequently.

ACPs are also able to evaluate methods against the Recognition Requirements and submit them to the Certification Authority for inclusion in the Accreditation Register.

Characteristic	Explanation	How Demonstrated
Relevance	The method must be meaningfully applicable to the domain of IT architecture.	Value proposition of the method and summary of approach.
Efficacy	The method must be demonstrably successful in practice. Successful means two things: 1. When used correctly, the method routinely has the effects it claims to provide.	End-user/customer testimonials or fully worked (possibly anonymous) examples.
	2. The results satisfy the needs of the method's constituencies.	
Active User Community	The method must have a current active community of users; historically significant but disused methods are not of interest.	User rosters and community statistics, random surveys of users, or proof of community events.
Well-Formed	The method must have explicitly defined inputs, participants, roles, process steps, outputs, results, and deliverables.	Documentation example.
Documented	The method must be well-documented and subject to consistent interpretation. This documentation comprises at least a specification of the method's deliverables or results, and the process by which they are created. These specifications should be expressed with some rigor and detail.	Copy of documentation.

Characteristic	Explanation	How Demonstrated
Training Available	The method must be supported by self-paced or instructor-led training to a published, common curriculum.	Examples of training materials or random surveys of instructors and students.
Supporting Collateral	The method must be supported by collateral materials for use by practitioners. These materials might include, for example, templates, tools, examples, and best practice recommendations.	Examples of supporting collateral.
Managed	The method must have a defined process for feedback from practitioners and the maintenance and revision of the above materials (community, documentation, training, collateral).	Process definition. Identification of responsible parties.

7. ANNEX 1: RECOGNITION OF OTHER QUALIFICATIONS

7.1 Introduction

7.1.1 Purpose of Document

The purpose of this Annex to the IT Architect Certification Conformance Requirements is to document the decisions of the ITAC Specification Authority concerning recognition of other qualifications.

The purpose of recognition of other qualifications is to enable people with these qualifications to be given "credit" for what they have already achieved when applying for ITAC Certification.

7.1.2 Change History

Version	Date	Status	Comment
0.1	12 August 2010	Draft	First version covering Microsoft MCA Infrastructure Architect and Solution Architect.
1.0	31 August 2010	For Company Review	Minor edits for clarity.

7.2 Microsoft MCA

Qualifications: Microsoft MCA Infrastructure Architect and Microsoft MCA Solution Architect.

These two qualifications differ only in areas that are not common with ITAC, therefore only a single mapping has been performed, and applies to both the MCA

Infrastructure Architect and Solution Architect qualifications.

Mapping Levels: The qualifications are mapped against ITAC Level 2 only.

7.2.1 Mapping to ITAC Criteria

For each of the underlying components of the Microsoft criteria, a mapping was performed against the ITAC requirements. Each ITAC area was determined as being:

- Fully met no additional information needs to be provided by the Candidate.
- Fully met for one (1) project additional examples need to be provided up to the limit of expectation expressed in the ITAC criteria.
- Not met the ITAC criteria needs to be addressed by the Candidate.

7.2.1.1 Mapping of Core Foundation Skills at Level 2

Ref	Area	Skill	Level	Requirement Mapping
CFS01	CFS: People	Apply Communication Skills	Deep	Fully met
CFS02	CFS: People	Lead Individuals and Teams	Deep	Fully met
CFS03	CFS: People	Perform Conflict Resolution	Applied	Fully met

Ref	Area	Skill	Level	Requirement Mapping
CFS04	CFS: Project Management	Manage Architectural Elements of an IT Project Plan	Deep	Fully met
CFS05	CFS: Business	Understand Business Aspects	Applied	Fully met
CFS06	CFS: Architecture	Develop IT Architecture	Deep	Fully met
CFS07	CFS: Architecture	Use Modeling Techniques	Deep	Not met
CFS08	CFS: Architecture	Perform Technical Solution Assessments	Deep	Not met
CFS09	CFS: Architecture	Apply IT Standards	Deep	Fully met
CFS10	CFS: Architecture	Establish Technical Vision	Deep	Not met
CFS11	CFS: Architecture	Use of Techniques	Deep	Not met
CFS12	CFS: Architecture	Apply Methods	Deep	Not met
CFS13	CFS: Architecture	Define Solution to Functional and Non- functional Requirements	Deep	Fully met
CFS14	CFS: Architecture	Manage Stakeholder Requirements	Deep	Fully met
CFS15	CFS: Architecture	Establish Architectural Decisions	Deep	Fully met
CFS16	CFS: Architecture	Validate Conformance of the Solution to the Architecture	Deep	Fully met
CFS17	CFS: Architecture	Perform as Technology Advisor	Deep	Not met

7.2.1.2 Mapping of Experience Criteria at Level 2

Ref	Experience	Description	Requirement Mapping
EC01	Experience Producing Architectures	At least three (3) years' experience producing IT architectures.	Fully met
EC02	Breadth of Architectural Experience	Experience architecting IT solutions which involve the application and integration of <i>a broad variety</i> of products, technologies, and services from either the enterprise or solution perspective, and which encompass both functional and non-functional components <i>across multiple elements of IT architecture in each project</i> (Business, Application, Infrastructure, Information).	Not met
EC03	Experience with Different Types of Technologies and Architectures	Experience with multiple types of systems and application architectures, and multiple hardware and software platforms.	Fully met
EC04	No requirement from Vo	ersion 2.2 onwards,	N/A
EC05	No requirement from Vo	ersion 2.0 onwards.	N/A

Ref	Experience	Description	Requirement Mapping
EC06	Full Lifecycle Involvement	The Candidate must have been responsible for the architecture definition activity of a project or engagement across the full lifecycle appropriate to that project or engagement, and must have been involved as an IT Architect, or in some other capacity working with others, to ensure the architecture has been realized. Participation in each phase of the lifecycle need not be as lead IT Architect.	Fully met
EC07	Industry Knowledge	Demonstrate expertise in one or more industry sectors, including the business, legal, and regulatory context.	Fully met
EC08	Knowledge of IT Trends	Demonstrate knowledge of the significant trends in the IT domain.	Fully met

7.2.1.3 Mapping of Professional Development Criteria at Level 2

Ref	Requirement	Description	Requirement Mapping
PD01	Training in the design and engineering of IT architectures	Attendance at a taught course, or through self-study.	Not met
PD02	Knowledge of the technology, trends, and techniques in the IT industry	Candidates are required to maintain their knowledge of the technology, trends, and techniques in the IT industry.	Fully met
PD03	Vertical industry knowledge (e.g., telecoms, financial, etc.)	Candidates are required to maintain an understanding of the client's business as it pertains to the client's vertical industry (e.g., telecoms, financial, etc.). Candidates should be aware of the latest trends and techniques that may influence IT architectures for their customers within industry verticals. Candidates should endeavor to sustain this learning process during the time they are engaged with a client or produce architectures that are industry-specific.	Fully met
PD04	Skills and knowledge in IT architecture	Candidates must continually develop their skills and knowledge in IT architecture.	Not met

7.2.1.4 Mapping of Community Contribution Criteria at Level 2

Ref	Requirement	Description	Requirement Mapping
CC01	Contributions to the IT architecture profession	Candidates must make contributions to the IT architecture profession; for example, mentoring, publications, teaching, research collaboration, or participation in professional organizations.	Fully met
CC02	Contribution to the IT architecture community	As part of their contribution to the community, Master Certified IT Architects are expected to be available to serve from time to time on Direct Certification Boards at the request of the Certification Authority. Such participation will be evaluated positively at recertification.	N/A

7.2.1.5 Mapping of Attributes of Experience Profiles at Level 2

Ref	Requirement	Description	Requirement Maping
EXP01	Experience with Strategy/Design/ Implementation aspects of Solution	Experience must include the understanding and appreciation of the solution lifecycle from strategy, design, and implementation through to completion, enabling the IT Architect to produce solution designs that are successful.	Fully met for 1 project
EXP02	Key Decisions Made	Experience Profiles must contain a summary of the key architectural decisions made by the Candidate, the reasons for the decisions, and the alternatives that were considered.	Fully met for 1 project
EXP03	Demonstrated Architectural Capability	Design sufficiently complex, challenging, and relevant architectures.	Fully met for 1 project
EXP04	Broad Technical Experience	Candidates must have a broad set of technical and architectural experiences obtained during the design, development, and deployment of applications or systems on different platforms (software or hardware).	Fully met for 1 project
EXP05	Application of Tools and Methods	Demonstrated use of design/architecture methods and tools.	Fully met for 1 project

Ref	Requirement	Description	Requirement Maping
EXP06	Demonstrated Success	Candidates must have acted in the role of IT Architect of at least three (3) successful architectural engagements.	Fully met for 1 project
		The architectural artifacts produced by the Candidate must have been utilized in the implementation of the component or solution.	
		At least two (2) of the three engagements must have been in connection with projects that met their acceptance criteria, or, in the case of an architectural framework, were successfully adopted. (An architectural engagement may be an enterprise architecture, solution architecture, or architectural framework.)	
EXP07	Perform as a Lead IT Architect	Performed as a Lead IT Architect in the development of a major project or subsystem.	Not met

7.2.2 Certification Requirement

In addition to a certificate of Microsoft MCA Certification as an Infrastructure Architect or Solutions Architect, Candidates are required to show compliance with the following criteria by completing the applicable Certification Package template.

7.2.2.1 Core Foundation Skills

Candidates are required to provide evidence demonstrating compliance with CFS07, CFS008, CFS10, CFS11, CFS12, and CFS17.

7.2.2.2 Experience Criteria

Candidates are required to provide evidence demonstrating compliance with EC01 and EC02.

7.2.2.3 Professional Development

Candidates are required to provide evidence demonstrating compliance with PD01 and PD04.

7.2.2.4 Community Contribution

No further evidence required.

7.2.2.5 Experience Profiles

Candidates are required in their Certification Package to provide two Experience Profiles demonstrating compliance with EXP01, EXP02, EXP03, EXP04, EXP05, EXP06, and EXP07.

7.2.3 Certification Process

Candidates with the Microsoft MCA Infrastructure Architect or Solution Architect qualification may prepare and submit applications for ITAC certification using the Certification Package template designed for this purpose that is available on the Certification Authority web site, along with a scanned copy of their Microsoft MCA certificate.

Candidates will then be evaluated by an ITAC Re-Certification Board as defined in Section 8.2 of the
Certification Policy.