

**The Open Group® Professional
Certification Program**

**Conformance Requirements for the
Trusted Technology Practitioner
Profession (Open CTPP)**

Version 1.1
November 2020

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**The Open Group® Professional Certification Program:
Conformance Requirements for the Trusted Technology Practitioner Profession (Open CTTTP)**

Document Number: X206

Published by The Open Group, November 2020.

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1. Introduction

The Open Group Professional Certification Program (the Program) is designed to validate the existence of those qualities and skills in a professional that enable the effective development, implementation, and operation of Business or IT-related specializations. The Program is skills and experience-based and goes beyond validating the mastery of any specific knowledge base.

The Program covers multiple Professions. This document is for the Trusted Technology Practitioner Profession, which leads to certification as an Open Certified Trusted Technology Practitioner (Open CTTP).

The Open Group supports two different routes to certification:

- The first route is Direct Certification by The Open Group
- The second route is Indirect Certification through third-party programs accredited by The Open Group

The Conformance Requirements for each of the Professions in the Program apply equally to Direct and Indirect Certification.

This document is intended for individuals who wish to pursue Direct Certification in the Trusted Technology Practitioner Profession as Trusted Technology Practitioners, and for organizations that wish to run Accredited Certification Programs internally.

1.1 Conformance Requirements

This document defines the requirements for certification as an Open Certified Trusted Technology Practitioner (Open CTTP) and may also be used as the foundation of a Trusted Technology Practitioner Profession.

These Conformance Requirements define those qualities and skills in a professional that enable the application of effective Trusted Technology security practices, such as those described in the O-TTPS: ISO/IEC 20243.¹ The requirements are skills and experience-based and do not define or require any specific body of knowledge.

The document may be used on its own or, in conjunction with other related documents from The Open Group, as a guide for individual career development as well as a framework for Trusted Technology Practitioner Profession programs within members of The Open Group and other public and private sector organizations. The Conformance Requirements are designed to be flexible and extensible so that the framework may be adapted and extended to meet the needs of any industry, country, or organization.

¹ ISO/IEC 20243: Information Technology – Open Trusted Technology Provider™ Standard (O-TTPS) – Mitigating Maliciously Tainted and Counterfeit Products.

1.2 Key Documents

The Trusted Technology Practitioner Profession is based upon three key documents:

- The Open Group Professional Certification Program Certification Policy, which sets out the policies and processes by which an individual may achieve certification
- The Open Group Professional Certification Program Conformance Requirements for the Trusted Technology Practitioner Profession (Open CTTP) (this document), in which are documented the skills and experience that an individual must possess to achieve certification
- The Open Group Professional Certification Program Configuration Document for the Trusted Technology Practitioner Profession (Open CTTP), which outlines the specific certification policies and processes for the Trusted Technology Practitioner Profession

Practical information about the certification process is available through The Open Group Professional Certification Program FAQ and other documentation on the Certification Authority's website.

1.3 Levels of Certification

The Program recognizes three levels of certification:

- Level 1: A professional who is able to perform with assistance/supervision with a wide range of appropriate skills as a contributing professional.
- Level 2: A professional who is able to perform independently and take responsibility for delivery of solutions as lead professional.
- Level 3: A professional who has significant depth and breadth of impact on the business through the application of their Profession.

1.4 Migration and Change History

This is the first version of the Trusted Technology Practitioner Profession Conformance Requirements.

2. Trusted Technology Practitioner Roles and Responsibilities

Trusted Technology Practitioners must be able to advise product offering teams on the proper implementation of organizational guidelines and best practices relating to the integrity of Commercial Off-The-Shelf (COTS) Information and Communication Technology (ICT) products and the security of the supply chain throughout the entire product lifecycle.

An Open Certified Trusted Technology Practitioner is responsible for facilitating and implementing the guidelines, requirements, and recommendations that help assure against maliciously tainted and counterfeit products throughout the COTS ICT product lifecycle encompassing the following phases: design, sourcing, build, fulfillment, distribution, sustainment, and disposal.

These Conformance Requirements are relevant to practicing Supply Chain Risk Management (SCRM), such as those defined by the O-TTPS: ISO/IEC:20243, for Original Equipment Manufacturers (OEMs) or integrators for either products that consist of Systems, Software, Hardware, or Components.

2.1 Characteristics of the Trusted Technology Practitioner

The key skill and contribution Trusted Technology Practitioners bring to their pursuits is the ability to advise ICT product development or manufacturing teams on how to effectively mitigate technology supply chain risks including maliciously tainted and counterfeit components.

Effective Trusted Technology Practitioners typically possess and exhibit the following characteristics:

<p>Skills and experience producing SCRM solutions to mitigate risk to ICT product development or engineering processes</p>	<p>Trusted Technology Practitioners must be skillful in creating solutions that can be demonstrated to solve SCRM problems while adhering to business and/or technical constraints.</p> <p>In order to accomplish this, they must be proficient in the techniques and solutions that can be demonstrated to solve SCRM problems while adhering to business and/or technical constraints.</p>
<p>Appropriate SCRM skills and experience, including the ability to apply concepts from established standards like the O-TTPS: ISO/IEC:20243</p>	<p>Trusted Technology Practitioners are expected to be repeatedly successful in applying secure supply chain solutions that have been utilized in product manufacturing. Trusted Technology Practitioners are expected to lead the development of SCRM solutions against standards such as the O-TTPS: ISO/IEC 20243.</p>
<p>Disciplined, method-driven execution</p>	<p>The Trusted Technology Practitioner uses formalized methods and standards to guide and drive the creation of SCRM solutions, the management of their work, and the production of their deliverables.</p>
<p>Full lifecycle experience</p>	<p>The Trusted Technology Practitioner’s work spans all phases of the business cycle, from product identification through service delivery. Experience must include the understanding and appreciation of the product lifecycle from design, source, build, deliver, and service enabling the Trusted Technology Practitioner to successfully mitigate taint and counterfeit.</p>
<p>Leadership</p>	<p>An effective Trusted Technology Practitioner is a leader, providing knowledge, technical, and team leadership skills in their work, to their clients, and for their teams.</p>

<p>Strong personal and professional skills</p>	<p>The Trusted Technology Practitioner must have a high level of communication, consulting, and client relationship skills. The Trusted Technology Practitioner must be able to clearly communicate complex technical and business concepts to clients (internal or external) and team members, and to negotiate change when needed. Problem-solving of client business and technical issues is a key role of the Trusted Technology Practitioner and he or she must be capable of effectively identifying and framing problems, extracting and transforming elements of information, and integrating this information to produce timely and well-considered decisions.</p>
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Wherever the word “client” appears in this document it is intended to be read as meaning either an internal (in-house) client or an external client as part of a consulting engagement.

3. Level 1 and Level 2 Conformance Requirements (Normative)

The Conformance Requirements for a Level 1 or Level 2 Open Certified Trusted Technology Practitioner are broken down as follows:

- Core Basic skills
- Trusted Technology Practitioner Basic skills
- Experience Profile requirements
- Professional Development requirements
- Community Contribution requirements
- Experience requirements

3.1 Skill Levels

For the Core Basic skills and Trusted Technology Practitioner Basic skills, Candidates must meet or exceed the minimum skill level defined for each of the skills.

Table 1 lists the definition of skill levels and associated proficiency levels.

Table 1: Skill Level Definitions

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 Basic Skills

Table 2 lists the Core Basic skills for Level 1 and Level 2.

To achieve certification Candidates must be able to document that they have demonstrated these skills at the required level (or higher) repeatedly and successfully.

Table 2: Core Basic Skills for Level 1 and Level 2

Ref.	Skill	Description	Rationale	Skill Level 1	Skill Level 2
CBS01	Communicate in Writing	Good written communications of Trusted Technology topics, including the use of proper grammar, spelling, document organization, clarity, and use of appropriate content for the audience to meet its purpose.	Open Certified professionals need to be able to effectively communicate Trusted Technology concepts and topics – topics that are critical for the continuation of the work, such as product lifecycle management and Secure Engineering.	Applied	Deep
CBS02	Communicate Verbally	Good verbal communications, with responsiveness to questions, ability to stay on subject, use of good feedback, and follow-up questions, etc., leading to effective two-way communication. Culturally-appropriate body language is expected in face-to-face meetings and video conferencing.	Open Certified professionals need to be able to effectively communicate Trusted Technology topics – topics that are critical for the continuation of the work to mitigate risk to the OEM’s product supply chain.	Applied	Deep
CBS03	Leading Teams	Given a scope of SCRM work to be accomplished, plan the work, form a team to perform the work, and guide the team and its members in performing the work to completion.	Open Certified professionals must be able to take on a leadership role leading to results in the scope of the work and therefore must exhibit leadership skills.	Applied	Deep

Ref.	Skill	Description	Rationale	Skill Level 1	Skill Level 2
CBS04	Mediate Equitable Solutions	Given a conflict that jeopardizes the integrity of a product offering, mediate differing stakeholder opinions to arrive at equitable resolutions that ensure successful, secure, and stable outcomes.	Open Certified professionals must be capable of maintaining the integrity of their work products while simultaneously serving the needs of multiple stakeholders of diverse needs.	Applied	Deep
CBS05	Understand Business Aspects	Understand the stakeholders' business needs, how they relate to their business and mission, and to the SCRM activities.	Open Certified professionals must have business insight into how SCRM activities and work products serve the business needs of a variety of stakeholders and how they relate to the larger business context.	Applied	Deep
CBS06	Develop Trusted Technology Solutions	Given one or more business or technical requirement(s), establish Trusted Technology policies, practices, or solutions that can be validated to meet those requirements while adhering to business and/or technical constraints.	Open Certified professionals must be skillful in creating solutions that can be demonstrated to solve SCRM problems while adhering to business and/or technical constraints.	Applied	Deep
CBS07	Manage Discipline-specific Risks within a Project	Given a project plan, identify those elements of the plan that put the integrity of the Trusted Technology aspects of the plan/timeline at risk. Manage those elements through to completion as agreed by the client/project manager.	Given a project plan, identify those elements of the plan that put the integrity of the Trusted Technology aspects of the plan/timeline at risk. Manage those elements through to completion as agreed by the client/project manager.	Applied	Deep

3.3 Trusted Technology Practitioner Basic Skills

Table 3 lists the Trusted Technology Practitioner Basic skills for Level 1 and Level 2.

To achieve certification Candidates must be able to document that they have demonstrated these skills at the required level (or higher) repeatedly and successfully.

Table 3: Trusted Technology Practitioner Basic Skills for Level 1 and Level 2

Ref.	Skill	Description	Rationale	Skill Level 1	Skill Level 2
TPL01	Adapt and Apply Method(s)	Adapt, apply, and enforce the use of method(s) that meets the method recognition criteria documented on the Certification Authority's website to successfully create the work products required by the method(s). The method(s) must include both Product Development/ Engineering and Secure Engineering practices.	Open Certified professionals must demonstrate the ability to adapt and apply recognized Technology Development method(s) to help ensure repeatability of delivery and success. The use of methods usually requires selection of work products and processes (adaptation). Methods or practices are seldom adopted without change.	Applied	Deep
TPL02	Perform Solution and Assurance Assessments	Given a solution* and the underlying business needs that drove its development, coordinate the assessment of the technical integrity, coherence, and risks inherent in that solution in such a way that the recommendations and findings are appropriate and actionable. Assessment techniques may include risk assessment, security assessment, agility assessment, supplier assessment, and others as appropriate.	Open Certified professionals must be able to evaluate the integrity and coherence of their solutions* or the solutions of others, and identify the feasibility and risks of their implementation within the intended context. * Note: A solution can mean a product, a component, a set of integrated components, or a supporting IT system.	Applied	Deep

Ref.	Skill	Description	Rationale	Skill Level 1	Skill Level 2
TPL03	Requirements Management	Manage the process of documenting, assessing, prioritizing, controlling, and validating product(s) requirements with relevant stakeholders.	Open Certified professionals must be able to establish, enforce, and maintain the integrity of the product offering requirements and management processes.	Applied	Deep
TPL04	Product Configuration and Version Control	Apply Configuration Management and Version Control techniques to establish and maintain the consistency of a product's performance, functional, version, and physical attributes in alignment with requirements, design, and formal product assets.	Open Certified professionals must be able to advise product offering teams on the proper implementation of configuration and version control as applicable to the types of assets particular to their offering.	Applied	Deep
TPL05	Risk Management	Manage risk to development or engineering products that are proven to be targets of tainting or counterfeiting as they progress through the product lifecycle.	Open Certified professionals understand how to identify and mitigate risk to development or engineering products at risk from malicious taint and counterfeit.	Applied	Deep
TPL06	Product Quality Assurance	Advise and support on planning and techniques for Quality Assurance and Testing, throughout the product lifecycle. This includes problem determination and defect management.	Open Certified professionals provide guidance on the Quality Assurance and Testing techniques that sufficiently protect the product lifecycle across the product supply chain.	Applied	Deep
TPL07	Process Governance	Advise and support the implementation and execution of a well-formed development or engineering governance process.	Open Certified professionals understand and can help product offering teams in their implementation of a well-formed development or engineering governance process and practices.	Applied	Deep

Ref.	Skill	Description	Rationale	Skill Level 1	Skill Level 2
TPL08	Apply Supply Chain Security Standards	Identify/establish/create, implement, and enforce appropriate supply chain security standards within product offerings. Standards may be <i>de jure</i> , <i>de facto</i> , or company/client-defined.	Open Certified professionals must be able to recognize the benefits of applying relevant supply chain security standards and techniques to ensure the integrity of product offerings across the lifecycle; for example, the implementation of run-time protection techniques within a software product.	Applied	Deep
TPL09	Supply Chain Threat Mitigation	Advise and support product teams on mitigation strategies to prevent tainted and counterfeit products.	Open Certified professionals must be able to advise product offering managers on the best strategies for mitigating risks to their supply chains.	Applied	Deep
TPL10	Secure Engineering Practices	Advise and support on technologies, business trends, legislation, methods, or techniques to provide reliable Secure Engineering practices to product management offering teams.	Open Certified professionals need to act as trusted advisors, able to give reliable advice in line with current relevant best practices for implementing Secure Engineering practices. This includes the application of threat and vulnerability analysis as it relates to product offerings.	Applied	Deep

3.4 Experience Profile Requirements

An Experience Profile is a coherent written description of a project or engagement that provides a Candidate with the opportunity to show how they perform as a Trusted Technology Practitioner, and enables an evaluator to understand and question the Candidate’s thought processes and decisions.

Each Experience Profile must describe a project completed not more than eight (8) years preceding the submission of the Milestone Application Form to the Certification Authority. 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 Level 1 or Level 2 certification and against which the Experience Profiles will be evaluated.

Table 4: Required Attributes for Experience Profiles for Level 1 and Level 2

Ref.	Experience	Description	Rationale	Level 1	Level 2
EXP01	Successful Implementation of Trusted Technology Project(s)	Demonstrated success. Note: Success is defined as establishing solutions or policies to mitigate the risk of tainted and counterfeit products or components.	Open Certified professionals are expected to be repeatedly successful in applying secure supply chain solutions that have been utilized in product manufacturing.	Candidates must have participated in the role of a Trusted Technology Practitioner in a successful technology supply chain security project.	Candidates must have performed in the role as lead Trusted Technology Practitioner in a successful technology supply chain security project.

Ref.	Experience	Description	Rationale	Level 1	Level 2
EXP02	Leading	Perform as a Lead Trusted Technology Practitioner	Open Certified professionals are expected to lead the development of SCRM solutions against standards, such as the O-TTTPS: ISO/IEC 20243.	Not applicable to this level of certification. (Being mentored)	Candidates must have performed in the lead role as a Trusted Technology Practitioner through a full product offering lifecycle.

3.5 Professional Development Requirements

Table 5 lists the Professional Development requirements for Level 1 and Level 2.

To achieve certification Candidates must be able to demonstrate that they have met the following requirements.

Table 5: Professional Development Requirements for Level 1 and Level 2

Ref.	Development	Description	Rationale	Development Level 1	Development Level 2
PD01	Supply Chain Risk Management Training	Candidates must have completed formal training in the discipline of SCRM; (i.e., methods/ frameworks, such as the O-TTPS: ISO/IEC 20243, to mitigate risks to the technology supply chain), either through attendance at a taught course, or through self-study.	Open Certified professionals are expected to have undergone at least a basic level of training in their discipline. The Program is intentionally not specific about the nature of the training expected because of the evolving nature of the body of knowledge and the profession.	Attendance at a taught course, or through self-study.	Attendance at a taught course, or through self-study.
PD02	Knowledge of Technology Trends and Techniques	Candidates are required to develop and maintain their knowledge of the technology, trends, and techniques that are relevant to develop products and maintain the integrity of a product lifecycle, to mitigate the risks of counterfeit components or malicious tainting.	Open Certified professionals are expected to develop and maintain an understanding of the technology trends and techniques so that they can leverage that body of knowledge into feasible SCRM solutions and maintain product supply chain integrity against standards, such as the O-TTPS: ISO/IEC 20243.	Develop and maintain personal knowledge.	Maintain personal knowledge.

Ref.	Development	Description	Rationale	Development Level 1	Development Level 2
PD03	Knowledge of Vertical Industry Sectors (e.g., telecoms, financial, etc.)	Candidates are required to develop and maintain an understanding of their business as it pertains to their vertical industry (e.g., telecoms, financial, etc.).	Open Certified professionals are expected to develop and maintain an understanding of their business as it pertains to their vertical industry (e.g., telecoms, financial, etc.).	Develop and maintain personal knowledge.	Maintain personal knowledge.
PD04	Skills and Knowledge in SCRM Disciplines	Candidates are required to develop and maintain their skills and knowledge of SCRM techniques.	Open Certified professionals are expected to continue to develop their skills and to stay up-to-date with the development of their profession.	Maintain personal skills and knowledge.	Maintain personal skills and knowledge.

3.6 Community Contribution Requirements

Table 6 lists the Community Contribution requirements for Level 1 and Level 2.

To achieve certification Candidates must be able to demonstrate that they have met the following requirements.

Table 6: Community Contribution Requirements for Level 1 and Level 2

Ref.	Contribution	Description	Rationale	Contribution Level 1	Contribution Level 2
CC01	Contribution to the Trusted Technology Practitioner Profession	Candidates must make contributions to their profession; for example, publications, teaching, mentoring, research collaboration, or participation in professional organizations.	Open Certified professionals are expected to contribute to the growth and vitality of their profession.	None	Contribute to the profession. Mentoring people in their career progression as a Trusted Technology Practitioner is required.

3.7 Experience Requirements

Table 7 lists the Experience requirements for Level 1 and Level 2.

To achieve certification Candidates must be able to demonstrate that they have at least the following experience.

Table 7: Experience Requirements for Level 1 and Level 2

Ref.	Experience	Description	Rationale	Experience Level 1	Experience Level 2
EC01	Developing SCRM Solutions	Experience developing SCRM solutions to protect technology product offerings using the O-TTPS: ISO/IEC 20243 or similar standards, for at least the specified number of months.	Candidates must demonstrate a minimum period of experience in performing in the role as a Trusted Technology Practitioner.	At least 24 months, possibly with supervision.	At least 36 months, with accountability for product offering SCRM aspects.
EC02	SCRM Solution Complexity	<p>Experience producing SCRM solutions that:</p> <ul style="list-style-type: none"> Involve the application and integration of a number of dimensions (products, technologies, services, processes, management, security, governance, etc.) from either the business, enterprise, or solution perspective Mitigate supply chain risk to functional components together with non-functional or operational components Apply the risk mitigation concepts, such as those defined in the O-TTPS: ISO/IEC 20243 	Open Certified professionals have a variety of experiences that demonstrate their ability to successfully deliver solutions to address complex technology supply chain security challenges.	Solution complexity is demonstrated in at least (1) of the following areas: by protecting the integrity of the product offering lifecycle, implementing Secure Engineering practices, or protecting the product offering's supply chain.	Solution complexity is demonstrated in at least (2) of the following areas: by protecting the integrity of the product offering lifecycle, implementing Secure Engineering practices, or protecting the product offering's supply chain.

Ref.	Experience	Description	Rationale	Experience Level 1	Experience Level 2
EC03	Different Types of Technologies and/or Product Offering Architectures	Experience applying supply chain risk mitigation solutions that involves different types of product offering technologies and architectures.	Open Certified professionals are expected to have experience mitigating supply chain risk to a variety of product offerings.	Demonstrate exposure to at least two (2) types of technologies and/or product architectures.	Demonstrate exposure to at least two (2) types of technologies and at least two (2) types of product architectures.
EC04	Implementation of Effective Trusted Technology Solutions	Candidates must demonstrate an understanding of how to apply Trusted Technology mitigation requirements to effectively protect product offerings.	Open Certified professionals must be able to evaluate the integrity and coherence of their solutions, or the solutions of others, and identify the feasibility and risks of their implementation within the intended context.	Appreciation of the impact of SCRM decisions to effectively mitigate risk and maintain the integrity of the product lifecycle.	Responsible for the impact of SCRM decisions to effectively mitigate risk and maintain the integrity of the product lifecycle.
EC05	Significant Trusted Technology Trends	Candidates must have demonstrated knowledge of significant Trusted Technology trends.	Open Certified professionals need to have broad, up-to-date, and relevant expertise in significant SCRM trends and possess the ability to apply those trends to mitigate risk to product offerings.	Activity is required with at least one (1) significant trend.	Activity is required with at least one (1) significant trend.
EC06	Full Lifecycle Involvement	Experience with strategy/design/implementation aspects of product development or manufacturing.	Open Certified professionals are expected to have experience with all phases of a product offering throughout its full lifecycle.	Experience must include the understanding and appreciation of the product lifecycle from design, source, build, deliver, and service enabling the Trusted Technology Practitioner to successfully mitigate taint and counterfeit.	Experience must include active involvement in the product lifecycle from design, source, build, deliver, and service enabling the Trusted Technology Practitioner to successfully mitigate taint and counterfeit.

4. Level 3 Conformance Requirements (Normative)

The Conformance Requirements for a Level 3 Open Certified Trusted Technology Practitioner are broken down as follows:

- Core Foundation skills
- Experience Profile requirements
- Professional Development requirements
- Community Contribution requirements
- Experience requirements

4.1 Core Foundation Skills

Table 8 lists the Core Foundation skills for Level 3.

To achieve certification Candidates must be able to document that they have demonstrated these skills at the required level (or higher) repeatedly and successfully.

Table 8: Core Foundation Skills for Level 3

Ref.	Skill	Description	Rationale	Skill Level 3
DCFS01	Employ Collaborative Influence	Facilitate the implementation of an important business initiative by promoting teaming and cross-organizational participation.	Distinguished Trusted Technology Practitioners achieve results that require support and collaboration of disparate groups with potentially conflicting interests.	Deep
DCFS02	Employ Cross-Organizational Leadership	Initiate, lead, and influence multi-disciplinary initiatives across organizational boundaries coordinating the activities necessary to succeed.	Distinguished Trusted Technology Practitioners lead successful business transformations that involve multiple disciplines across organizational boundaries.	Deep
DCFS03	Manage Risks	Guide an organization's strategy to recognize and mitigate the weaknesses or exposures in their plans and implementations in a way that secures successful and sustainable outcomes.	Distinguished Trusted Technology Practitioners detect and mitigate risks that jeopardize the business's SCRM initiatives, compliance, and/or organizations at an enterprise scale.	Deep
DCFS04	Develop Strategic Plans	Identify and drive strategic decisions and plans for an enterprise.	Distinguished Trusted Technology Practitioners are responsible for driving decisions and plans that affect the strategy of an enterprise.	Deep
DCFS05	Manage Cross-Organizational Projects	Allocate supply chain security project activities and assignments from multiple projects to multiple teams of professionals, across multiple organizational units.	Distinguished Trusted Technology Practitioners can manage complex projects that involve multiple organizational units and multiple teams of Professionals.	Deep
DCFS06	Communicate on an Executive Level	Communicate supply chain security strategies to business and/or project/program executives in a way that is appropriate and gains their commitment.	Distinguished Trusted Technology Practitioners communicate in a manner that convinces at the executive level.	Deep

Ref.	Skill	Description	Rationale	Skill Level 3
DCFS07	Advocate Stakeholders' Interests	Simultaneous advocate of multiple stakeholders' interests.	Distinguished Trusted Technology Practitioners understand and advocate the various, and potentially conflicting, interests and views of multiple stakeholders.	Deep
DCFS08	Lead SCRM Strategic Initiatives	Integrate SCRM practices into organization's strategic initiatives (vision, mission, strategy, etc.) to deliver positive impact and results to the business.	Distinguished Trusted Technology Practitioners apply product lifecycle and strategic thinking for the enterprise in order to identify opportunities that deliver significant positive business impact.	Deep
DCFS09	Troubleshooting and Remediation	Perform troubleshooting and provide remediation leadership and guidance for supply chain security solutions.	Distinguished Trusted Technology Practitioners identify problems in troubled supply chain security solutions and provide leadership and guidance in resolving them.	Deep
DCFS10	Innovate SCRM Technology or Process	Provide breakthrough innovation in the use of SCRM technologies or processes to deliver greater business value.	Distinguished Trusted Technology Practitioners innovate in the use of SCRM technologies or processes to deliver business value to their clients.	Deep
DCFS11	Establish Governance	Establish and maintain processes and policies for governance in those programs or projects for which the Trusted Technology Practitioner is responsible.	Distinguished Trusted Technology Practitioners establish and maintain processes and policies for governing the supply chain security projects and programs for which they are responsible.	Deep
DCFS12	Set Metrics for Compliance	Establish metrics for validating the conformance of an implementation to a trusted technology goal.	Distinguished Trusted Technology Practitioners select and/or create metrics that are appropriate for assessing compliance of implementations to their trusted technology goal.	Deep
DCFS13	Assess and Mature Policies and Procedures	Assess and mature the effectiveness of mitigating policies and procedures in achieving trusted technology goals in a changing business and technology environment.	Distinguished Trusted Technology Practitioners analyze how a changing business and technology environment may impact current and future trusted technology policies and procedures.	Deep

4.2 Experience Profile Requirements

An Experience Profile is a coherent written description of a project or engagement that provides a Candidate with the opportunity to show how they perform as a Distinguished Trusted Technology Practitioner, and enables an evaluator to understand and question the Candidate's thought processes and decisions.

Each Experience Profile must describe a project completed not more than eight (8) years preceding the submission of the Milestone Application Form to the Certification Authority. 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 9 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 9 defines the attributes that must be present within Experience Profiles for Level 3 certification and against which the Experience Profiles will be evaluated.

Table 9: Required Attributes for Experience Profiles for Level 3

Ref.	Experience	Description	Rationale	Skill Level 3
DEXP01	N/A	N/A	N/A	N/A

Ref.	Experience	Description	Rationale	Skill Level 3
DEXP02	Lead Strategic Trusted Technology Initiatives with Significant Business Impact	Distinguished Trusted Technology Practitioners have repeated experience in setting and driving trusted technology goals and objectives for significant organizational strategic initiatives that significantly positively affect the business.	Distinguished Trusted Technology Practitioners provide thought leadership towards directing and delivering the mission of the organization and have experience with developing solutions that result in significant positive business value and/or impact.	The Candidate must explain how they drove a strategic trusted technology enterprise initiative that was significant within their corporate industrial and operational environment, why the initiative was significant and successful, and how it impacted the business significantly, as measured within their corporate industrial and operational environment, as well as how their involvement was essential to the success of the project.

4.3 Professional Development Requirements

Table 10 lists the Professional Development requirements for Level 3.

To achieve certification Candidates must be able to demonstrate that they have met the following requirements.

Table 10: Professional Development Requirements for Level 3

Ref.	Development	Description	Rationale	Development Level 3
DPD01	N/A	N/A	N/A	N/A
DPD02	Knowledge of Technology Trends and Techniques	Candidates are required to develop and maintain their knowledge of the technology, trends, and techniques that are relevant to developing solutions for solving business problems.	Distinguished Trusted Technology Practitioners develop and maintain an understanding of the technology trends and techniques so that they can leverage that body of knowledge into feasible solutions.	Maintain personal knowledge.
DPD03	Knowledge of Vertical Industry Sectors (e.g., telecoms, financial, etc.)	Candidates are required to develop and maintain an understanding of their business as it pertains to their vertical industry (e.g., telecoms, financial, etc.). Candidates should endeavor to sustain this learning process during the time they are acting as a Trusted Technology Practitioner.	Distinguished Trusted Technology Practitioners develop and maintain an understanding of their business as it pertains to their vertical industry (e.g., telecoms, financial, etc.). Distinguished Trusted Technology Practitioners are expected to stay up-to-date with developments in their industry sector in order to ensure the solutions they define are appropriate to the current and future business context.	Maintain personal knowledge.
DPD04	Skills and Knowledge in SCRM Disciplines	Candidates are required to develop and maintain their skills and knowledge of SCRM techniques.	Open Certified professionals are expected to continue to develop their skills and to stay up-to-date with the development of their profession.	Maintain personal skills and knowledge.

4.4 Community Contribution Requirements

Table 11 lists the Community Contribution requirements for Level 3.

To achieve certification Candidates must be able to demonstrate that they have met the following requirements.

Table 11: Community Contribution Requirements for Level 3

Ref.	Contribution	Description	Rationale	Contribution Level 3
DCC01	Contribution to the Trusted Technology Practitioner Profession	Candidates must make contributions to their profession; for example, publications, teaching, mentoring, research collaboration, or participation in professional organizations.	Distinguished Trusted Technology Practitioners contribute to the growth and vitality of the profession inside and outside their organization.	Contribute to the Profession.
DCC02	Development of Professional Professionals	Candidates are expected to develop professional Professionals through teaching, serving on Peer Review Boards, coaching, and/or mentoring.	Distinguished Trusted Technology Practitioners transfer knowledge and experience to the supply chain security community.	Mentoring people in their career progression as a Trusted Technology Practitioner is required.

4.5 Experience Requirements

Table 12 lists the Experience requirements for Level 3.

To achieve certification Candidates must be able to demonstrate that they have at least the following experience.

Table 12: Experience Requirements for Level 3

Ref.	Experience	Description	Rationale
DEC01	Innovative SCRM Leadership	Establish innovative strategic projects, programs, or initiatives to mitigate significantly complex product lifecycle supply chain threats.	Distinguished Trusted Technology Practitioners realize product lifecycle SCRM practices that are significantly complex. Significantly complex here refers to engagements that concern, for example, many different stakeholders, multiple lines of business, many solution varieties, varying technology complexity, highly regulated environments, (de)mergers, acquisitions, business transformations, international and/or global scale, etc.
DEC02	Demonstrate Business Impact	The Candidate must have demonstrated positive significant impact on the business through the continued application of SCRM practices across the organization.	Distinguished Trusted Technology Practitioners demonstrate measureable positive significant impact on the business outcome through significantly complex projects or initiatives. The Candidate must have demonstrated this through financial or other KPIs.
DEC03	Promulgate Product Lifecycle Security Process, Policies, and Procedures	The Candidate must have experience defining, sustaining, or evolving product lifecycle security processes, policies, and procedures that impact multiple projects and/or business areas.	Distinguished Trusted Technology Practitioners establish product lifecycle security processes, policies, and procedures that have a significant impact beyond a single project or initiative. This includes, but is not limited to, selecting and adapting the proper security methods, governance, and technical standards.
DEC04	Influence Reuse of Standards, Practices, Policies, and Assets	Candidates must encourage the implementation and reuse of standards, practices, policies, and assets across project domains.	Distinguished Trusted Technology Practitioners must be able to advocate for the reuse of standards, practices, policies, and assets across project domains throughout the organization.