

The IICTP Credentials Book

Ten credentials, their badges and their certificates: who each is for, how it is earned, and what a holder receives.



VERSION 0.1 · 22 OCTOBER 2026

The IICTP Credentials Book

A guide to the ten IICTP credentials, with their badges and sample certificates.

International Insignia of Certified Technical Practitioners (IICTP)

22 October 2026

The IICTP Credentials Book

Version 0.1. 22 October 2026.

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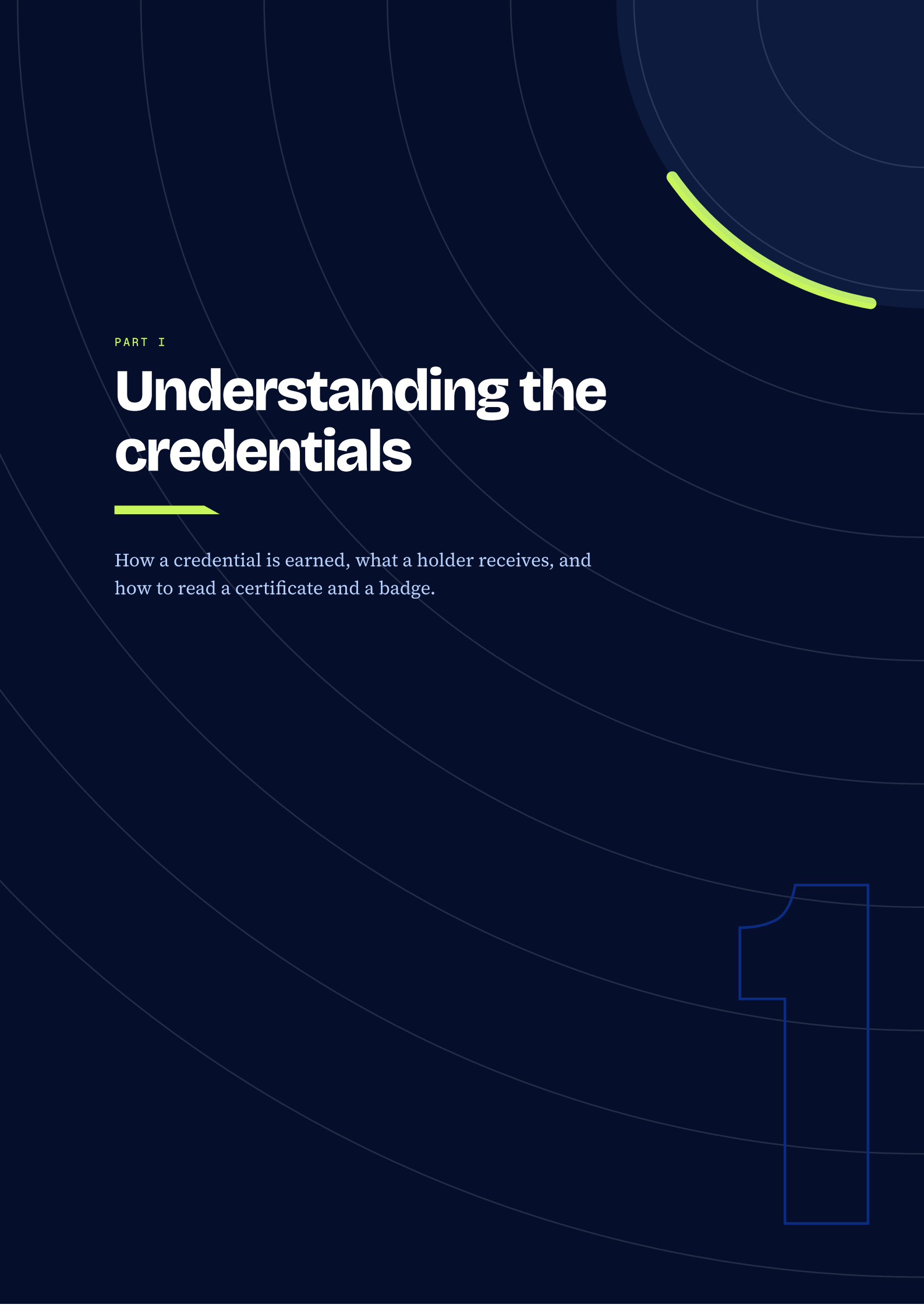
IICTP, TPBOK™ and the credential names and marks shown are marks of IICTP. Registration status varies by country.

Samples. Every certificate in this book is a sample. It was not issued to any person.

Status. IICTP is a new independent credentialing body. It is not ISO/IEC 17024 accredited. It does not promise employment, salary or employer recognition. Exam availability, formats and fees are as of 22 October 2026 and may change; the website and the published exam blueprints are authoritative.

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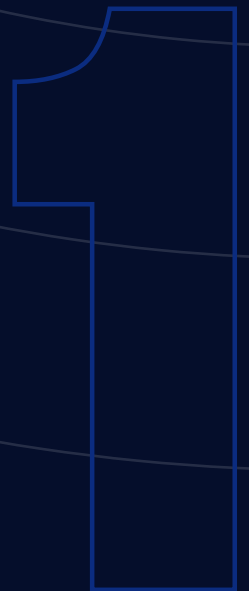


PART I

Understanding the credentials



How a credential is earned, what a holder receives, and
how to read a certificate and a badge.



WELCOME

About this book

This book describes the ten credentials of IICTP, the International Insignia of Certified Technical Practitioners: who each one is for, what it takes to earn, what its exam covers, and what a holder receives, including the certificate and the digital badge.

How each credential is shown

Every credential has three pages. The first is its title page, with the facts that matter at a glance. The second covers eligibility, the exam and what it covers. The third shows its sample certificate and its badge.

Labels you will see

OPEN FOR BOOKING	The exam can be booked now.
PLANNED · NOT YET OPEN	The credential is designed and its exam blueprint is published, but the exam is not yet open. Details, including the exam format and fees, may change before it opens.

Samples, not holders

Every certificate in this book is a sample. It carries the name “Sample Holder” and a number that begins SAMPLE, and it was not issued to any person. Badges are the real, unaltered badge files.

Where the facts come from

Numbers, names and policies are taken from the same files that build the IICTP website and the exam blueprints, so they match. If anything differs from what is published at iictp.org, the website and the exam blueprints are authoritative.

What IICTP is, and is not. IICTP is a new independent credentialing body. It is not ISO/IEC 17024 accredited. It does not promise employment, salary or employer recognition.

PART I · UNDERSTANDING THE CREDENTIALS

What an IICTP credential is

An IICTP credential records that a person has passed an examination built from the TPBOK™, the Technical Practitioner Body of Knowledge, and met the eligibility requirements stated for that credential.

It is vendor-neutral. Questions test concepts and judgement in realistic scenarios, not knowledge of one company's products.

Ten credentials, two tracks

Core track · 4

ATP®, CTP®, PgTP®, PfTP®. Four credentials for different stages of experience, from early-career practitioners (0–2 years) to senior and executive leaders (10+ years).

Specialty track · 6

AIP, CAP, ADP, IESP, LLMP, CSTP. Focused credentials in one applied domain: AI, cloud architecture, agile delivery, IoT and embedded systems, local LLMs, and clean software telemetry.

Five domains behind every exam

Each exam draws on the same five TPBOK™ domains, in a different share for each credential:

Credential	Architecture & Systems Design	Engineering Governance & Agile Delivery	Applied AI & Emerging Tech Integration	Infrastructure & Security	People Leadership in Engineering
ATP®	24%	28%	16%	20%	12%
CTP®	30%	24%	18%	18%	10%
PgTP®	25%	30%	15%	15%	15%
PfTP®	20%	25%	20%	15%	20%
AIP	26%	18%	36%	14%	6%
CAP	34%	16%	10%	34%	6%
ADP	16%	42%	12%	18%	12%
IESP	32%	16%	14%	30%	8%
LLMP	30%	15%	35%	16%	4%
CSTP	28%	24%	16%	26%	6%

Share of exam questions from each domain. Shares are the intended shares and may be refined as each exam bank is calibrated.

How a credential is earned

1**Check eligibility**

Each credential states its education and experience requirements. They are listed in this book, credential by credential, and in the reference section.

2**Book the exam**

Exam fees are not refundable once booked. You can reschedule free of charge up to 24 hours before your sitting.

3**Sit the exam**

A timed online exam with an integrity attestation. It is scored on a scaled score, with no negative marking. One retake is included within 12 months.

4**Receive your record**

If you pass, your credential is recorded in ICTP's public registry under a unique number. You receive a certificate and a verifiable digital badge.

5**Keep it current**

A credential lasts three years. In each cycle you earn Technical Development Units (TDUs): one TDU is one hour of learning or giving back.

What the public registry shows

The name, the credential title, the certificate number, the issue date and the status. Exam scores and personal contact details are never listed. The status is either *Certified in Good Standing* or *Expired, lapsed or withdrawn*.

PART I · UNDERSTANDING THE CREDENTIALS

The ten credentials



ATP®

Associate Technical Practitioner

FOUNDATIONAL · OPEN



CTP®

Certified Technical Practitioner

PRACTITIONER · OPEN



PgTP®

Program Technical Practitioner

EXECUTIVE · PLANNED



PfTP®

Portfolio Technical Practitioner

EXECUTIVE · PLANNED



AIP

AI Practitioner

SPECIALTY · PLANNED



CAP

Cloud Architecture Practitioner

SPECIALTY · PLANNED



ADP

Agile Delivery Practitioner

SPECIALTY · PLANNED



IESP

IoT & Embedded Systems

SPECIALTY · PLANNED



LLMP

Local LLM Practitioner

SPECIALTY · PLANNED



CSTP

Clean Software Telemetry

SPECIALTY · PLANNED

Open for booking

ATP® and CTP®. These two exams can be booked now.

Planned

PgTP®, PfTP®, AIP, CAP, ADP, IESP, LLMP, CSTP.

Designed, with published exam blueprints. Exam format, availability and fees may change before they open.

Status as of 22 October 2026. Every badge has its own hue; the tier is written on the badge.

PART I · UNDERSTANDING THE CREDENTIALS

Anatomy of a certificate

CREDENTIAL TIER

IICTP

2 NO. SAMPLE-CTP

SAMPLE CERTIFICATE · NOT ISSUED TO A REAL HOLDER

This certifies that

1 **Sample Holder**

has met every requirement of the IICTP Examination Board and demonstrated verified technical competence, and is awarded the credential

4 **CTP** **Certified Technical Practitioner**

5 ISSUED Date of issue	VALID UNTIL Issue + 3 years	CYCLE 60 TDUs / 3 yrs	STATUS Good standing
----------------------------------	--------------------------------	--------------------------	-------------------------

7 Registrar
Name shown on issue

6 **Authorized signatory**
IICTP

3 **Practitioner**

8 **QR**

Verify this certificate
iictp.org/verify/SAMPLE-CTP
Scan the code, or enter the certificate number. Valid only while listed as active.

SHEET 1 OF 1

- 1. Holder name.** The person the credential is awarded to. Here it reads “Sample Holder”.
- 2. Record number.** The unique number used to find the credential in the public registry. Samples begin SAMPLE.
- 3. Credential tier.** Foundational, Practitioner, Executive or Specialty. The panel colour follows the tier.
- 4. The credential.** The code and the full name, as written in the registry.
- 5. Dates, cycle and status.** The issue date, the end of the three-year validity, the TDUs to earn in each cycle, and the registry status.
- 6. Seal.** The IICTP seal. Its ring names the tier.
- 7. Signatures.** The registrar and an authorised signatory of IICTP.
- 8. Verification.** The number, and on an issued certificate a QR code, lead to the registry record. Sample certificates show a placeholder instead of a code.

PART I · UNDERSTANDING THE CREDENTIALS

Anatomy of a badge



- 1. Issuer.** "IICTP Certified".
- 2. Code.** The credential's letters, large, with its mark.
- 3. Name.** The credential's full name.
- 4. Tier.** Foundational, Practitioner, Executive or Specialty.
- 5. Verified seal.** A check mark in a ring.
- 6. Signal arc.** The lime arc from the IICTP mark. The contour lines radiate from the corner of the tile.

The badge is the IICTP mark at large size: a rounded tile with one cut corner, contour arcs radiating from that corner, and a lime arc, the IICTP signal colour. Each credential has its own hue. The image is the same for everyone who earns that credential. The holder's name, dates and status are on the registry record it links to.

Formats

Each badge is published as an SVG (vector) and a 1000 × 1000 pixel PNG. Machine-readable descriptions follow Open Badges 2.0 with hosted verification. Signed credentials (Open Badges 3.0) are a later decision.



Legible from 200 pixels down to a small avatar.

PART II

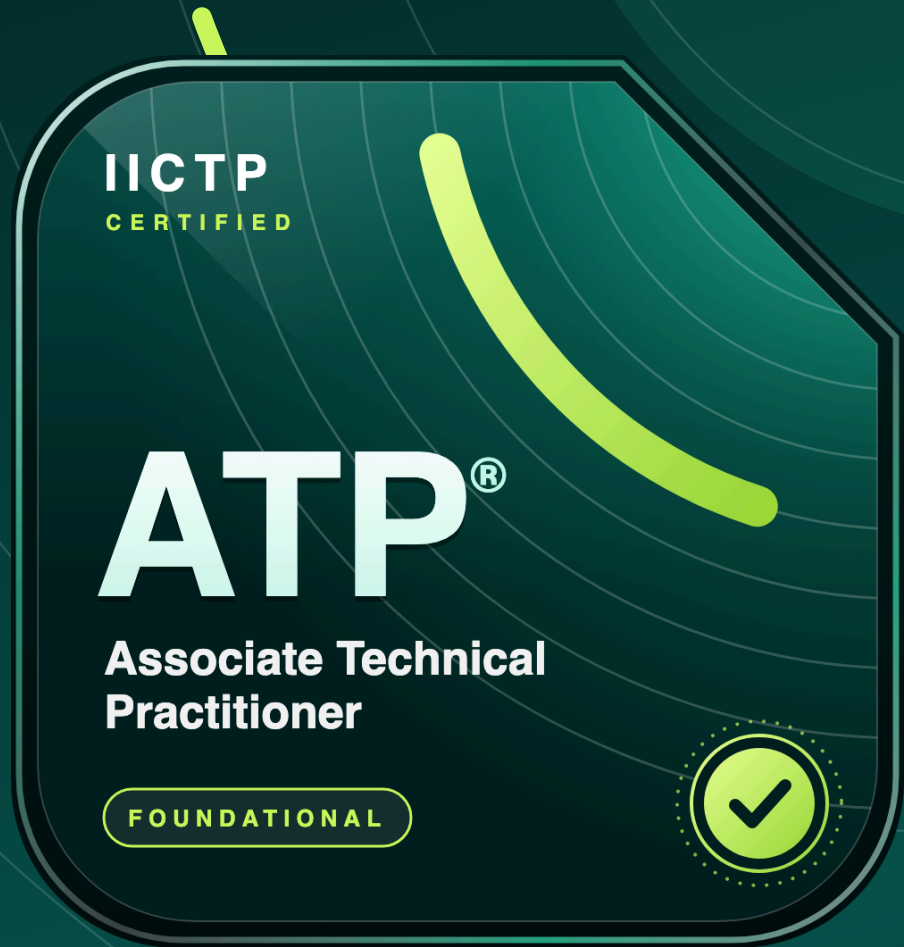
The core track

Four credentials for different stages of experience, from early-career practitioners to portfolio leaders.



IICTP

CREDENTIAL 01 OF 10



CORE TRACK · FOUNDATIONAL

ATP®

Associate Technical Practitioner

FOUNDATIONAL SOFTWARE ENGINEERING & COLLABORATIVE CODE REVIEW

Demonstrates fundamental understanding of software development life cycles, baseline system architecture, agile delivery principles, and collaborative engineering standards.

100

QUESTIONS

120

MINUTES

65%

PASS MARK

3

YEARS VALID

OPEN FOR BOOKING



CORE TRACK · FOUNDATIONAL

Associate Technical Practitioner ATP®

At a glance

Who it is for	Junior Developers, Associate PMs, QA Leads (0–2 years)
With a degree	Secondary diploma or equivalent + 23 contact hours technical coursework
Without a degree	Secondary diploma + 23 contact hours technical coursework
The exam	100 multiple-choice questions, 120 minutes, timed online with an integrity attestation
Pass mark	65% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 30 TDUs in each cycle.
Post-nominal	ATP®
Digital badge	Verifiable online badge
Exam fee	₹2,499 founding fee, for the first cohort
Status	Open for booking

What the exam covers

Architecture & Systems Design 24% · about 24 of 100

Client-server models, RESTful APIs, OOP/functional fundamentals, design patterns, and caching and scaling basics

Engineering Governance & Agile Delivery 28% · about 28 of 100

Git branching, collaborative pull requests, sprint workflows, ticket hygiene, and managing work in progress

Applied AI & Emerging Tech Integration 16% · about 16 of 100

AI developer tooling, code generation verification, prompt hygiene, and machine learning fundamentals

Infrastructure & Security 20% · about 20 of 100

CI/CD pipeline basics, secrets management, baseline vulnerability mitigation, and reading logs and dashboards

People Leadership in Engineering 12% · about 12 of 100

Technical communication, sprint collaboration, constructive review feedback, and professional ethics

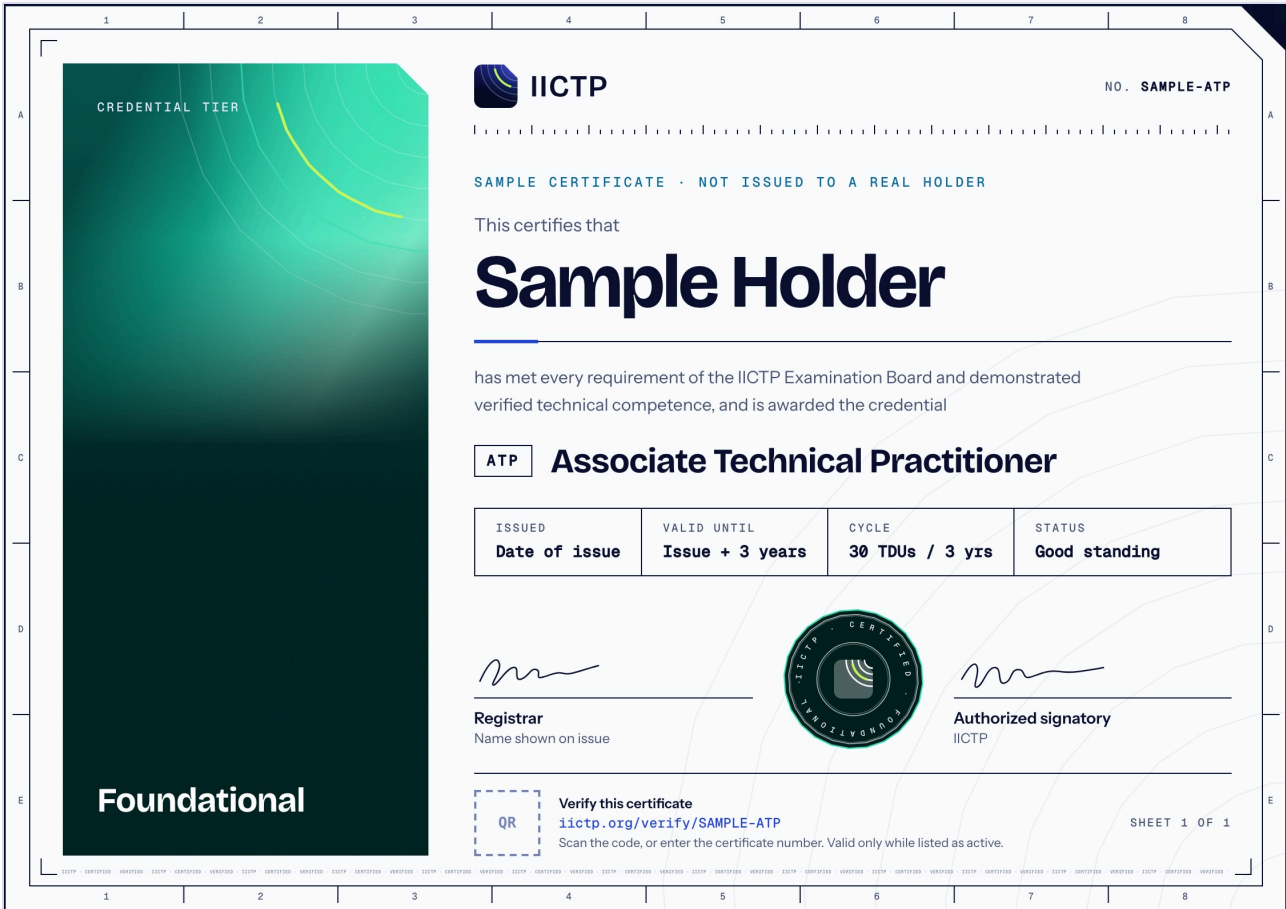
Focus areas

- Foundational software engineering lifecycles and modern version control (Git)
- Baseline systems architecture, API consumption, and clean code hygiene
- Agile ceremony participation, ticket grooming, and blameless peer review
- Basic application security hygiene and OWASP Top 10 awareness

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated. Current fees and what they include are in the credential handbook.

ATP® · Sample certificate and badge

What a holder receives



Sample certificate for the ATP®. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-ATP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/atp.json](#).

How a holder writes it

Sample Holder, ATP®

Credential	ATP® Associate Technical Practitioner
Certificate no.	SAMPLE-ATP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



CORE TRACK · PRACTITIONER

CTP®

Certified Technical Practitioner

DISTRIBUTED SYSTEMS ARCHITECTURE, FAILURE DOMAINS AND SPRINT DELIVERY

The definitive benchmark for engineering leaders. Validates proven mastery in systems design, technical risk mitigation, sprint governance and high-performance team delivery.

150

QUESTIONS

180

MINUTES

70%

PASS MARK

3

YEARS VALID

[OPEN FOR BOOKING](#)



CORE TRACK · PRACTITIONER

Certified Technical Practitioner CTP®

At a glance

Who it is for	Tech leads, engineering managers, senior IT PMs (3–7 years)
With a degree	Bachelor's degree + 36 months technical leadership experience
Without a degree	High school diploma + 60 months technical leadership experience
The exam	150 scenario-based questions, 180 minutes, timed online with an integrity attestation
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 60 TDUs in each cycle.
Post-nominal	CTP®
Digital badge	Verifiable online badge
Exam fee	₹5,499 founding fee, for the first cohort
Status	Open for booking

What the exam covers

Architecture & Systems Design 30% · about 45 of 150

Microservices, event-driven streaming, caching tiers, scalability trade-offs, and incremental legacy migration

Engineering Governance & Agile Delivery 24% · about 36 of 150

Release trains, architectural decision records (ADRs), technical debt management, flow metrics, and tailoring the delivery approach

Applied AI & Emerging Tech Integration 18% · about 27 of 150

RAG system topologies, vector databases, enterprise AI security, and the machine learning life cycle (training data, fine-tuning, model operations)

Infrastructure & Security 18% · about 27 of 150

Observability (metrics, logs, traces), Kubernetes scaling, threat modeling, software supply chain security, and infrastructure as code

People Leadership in Engineering 10% · about 15 of 150

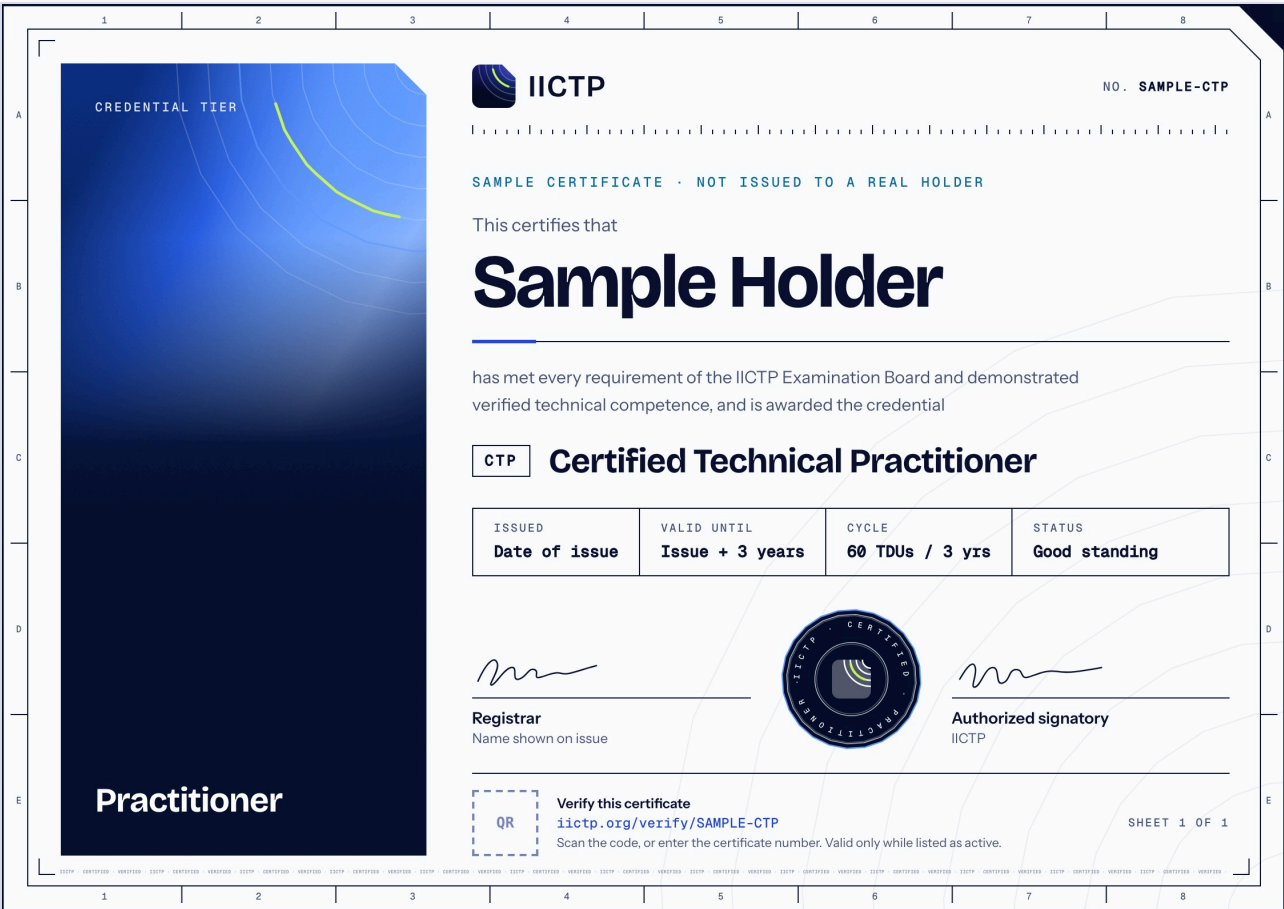
Squad leadership, technical mentoring, engineering career alignment, psychological safety, team design, and stakeholder trade-offs

Focus areas

- Distributed systems architecture, failure domain isolation, and CAP trade-offs
- Technical debt quantification, release train engineering, and DORA software delivery performance metrics
- Applied LLM, RAG and machine learning model integration into core product services
- Zero-trust network perimeters, container orchestration, and incident retrospectives

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated. Current fees and what they include are in the credential handbook.

What a holder receives



Sample certificate for the CTP®. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-CTP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/ctp.json](#).

How a holder writes it

Sample Holder, CTP®

Credential	CTP® Certified Technical Practitioner
Certificate no.	SAMPLE-CTP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



CORE TRACK · EXECUTIVE

PgTP®

Program Technical Practitioner

MULTI-SQUAD TECHNICAL ALIGNMENT, RELEASE TRAINS AND GOVERNANCE

Assesses practitioners who lead multi-squad engineering initiatives, complex cross-system scaling architectures, resource orchestration, and multi-million dollar engineering budgets.

170

QUESTIONS

210

MINUTES

75%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



CORE TRACK · EXECUTIVE

Program Technical Practitioner PgTP®

At a glance

Who it is for	Technical program managers, multi-squad leads, principal architects (7–12 years)
With a degree	Bachelor's degree + 48 months project leadership + 48 months program engineering management
Without a degree	High school diploma + 84 months multi-squad engineering program management
The exam	170 scenario & case-analysis items, 210 minutes, timed online with an integrity attestation (planned format; may change)
Pass mark	75% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 60 TDUs in each cycle.
Post-nominal	PgTP®
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

Architecture & Systems Design 25% · about 43 of 170

Enterprise system topologies, legacy modernization, and domain-driven design

Engineering Governance & Agile Delivery 30% · about 51 of 170

Cross-squad dependency resolution, program risk matrices, and release orchestration

Applied AI & Emerging Tech Integration 15% · about 26 of 170

Enterprise AI vendor vs build governance, compliance, and data sovereignty

Infrastructure & Security 15% · about 26 of 170

Disaster recovery runbooks, multi-region compliance, and enterprise FinOps

People Leadership in Engineering 15% · about 26 of 170

Engineering manager coaching, cross-functional stakeholder buy-in, and culture

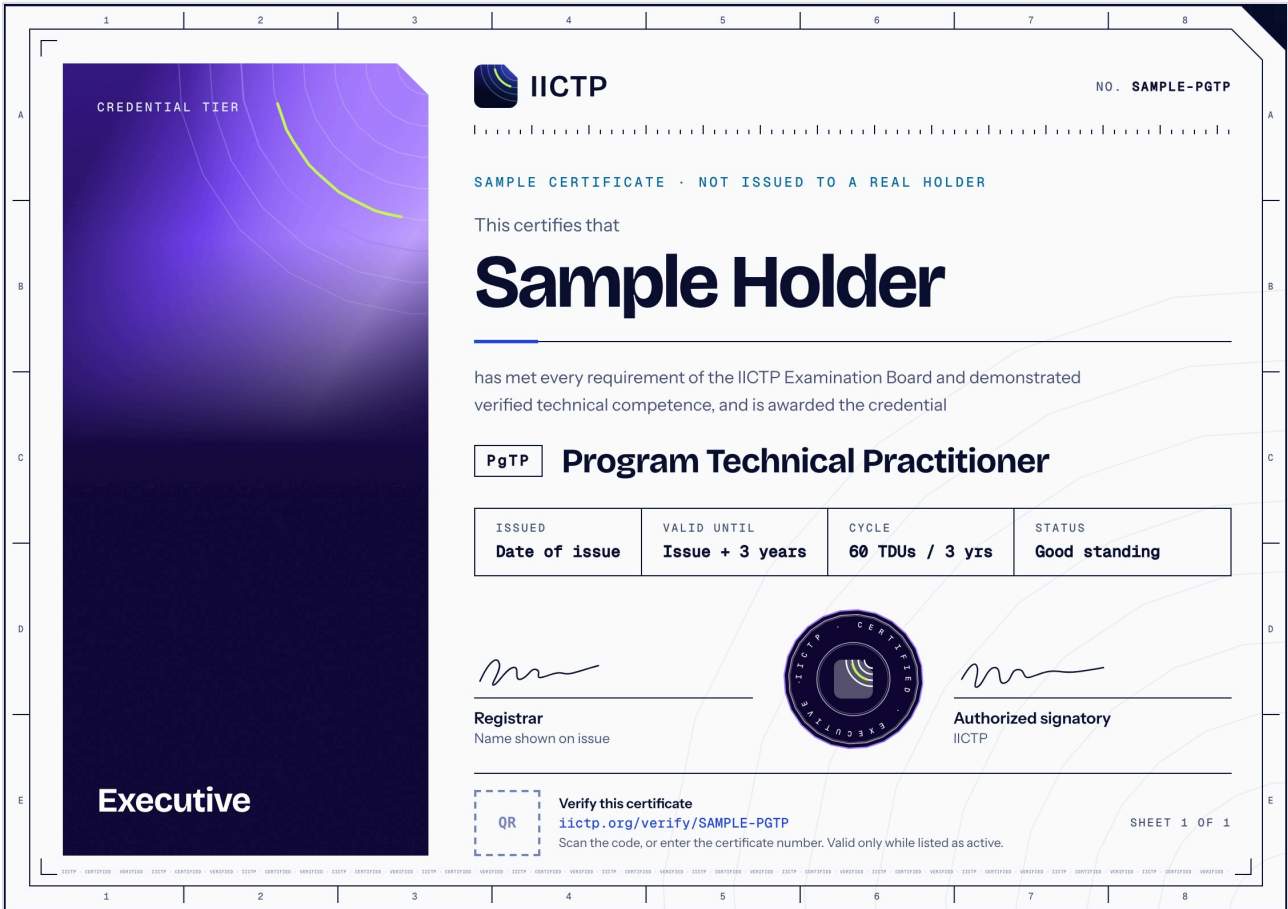
Focus areas

- Multi-squad engineering alignment and cross-team dependency orchestration
- Enterprise architecture legacy migration, cloud spend, and vendor contracts
- Enterprise AI adoption governance and cross-organization data sovereignty
- Engineering headcount planning, multi-million dollar budget allocation, and board reporting

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

PgTP® · Sample certificate and badge

What a holder receives



Sample certificate for the PgTP®. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-PGTP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/pgtp.json](#).

How a holder writes it

Sample Holder, PgTP®

Credential	PgTP® Program Technical Practitioner
Certificate no.	SAMPLE-PGTP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



CORE TRACK · EXECUTIVE

PFTP[®]

Portfolio Technical Practitioner

STRATEGIC CAPITAL ALLOCATION, BOARD-LEVEL TECH STEWARDSHIP

Executive credential validating the capability to evaluate capital engineering allocations, enterprise portfolio architectures, M&A due diligence, and enterprise governance.

180

QUESTIONS

240

MINUTES

75%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



CORE TRACK · EXECUTIVE

Portfolio Technical Practitioner PFTP®

At a glance

Who it is for	VP of Engineering, Chief Architects, CTOs, Portfolio Directors (10+ years)
With a degree	96 months professional technical business experience including 48 months in portfolio leadership
Without a degree	120 months technical business experience including 48 months portfolio leadership
The exam	180 questions, 240 minutes. Format details will be confirmed before the exam opens. (planned for-format; may change)
Pass mark	75% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 60 TDUs in each cycle.
Post-nominal	PFTP®
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

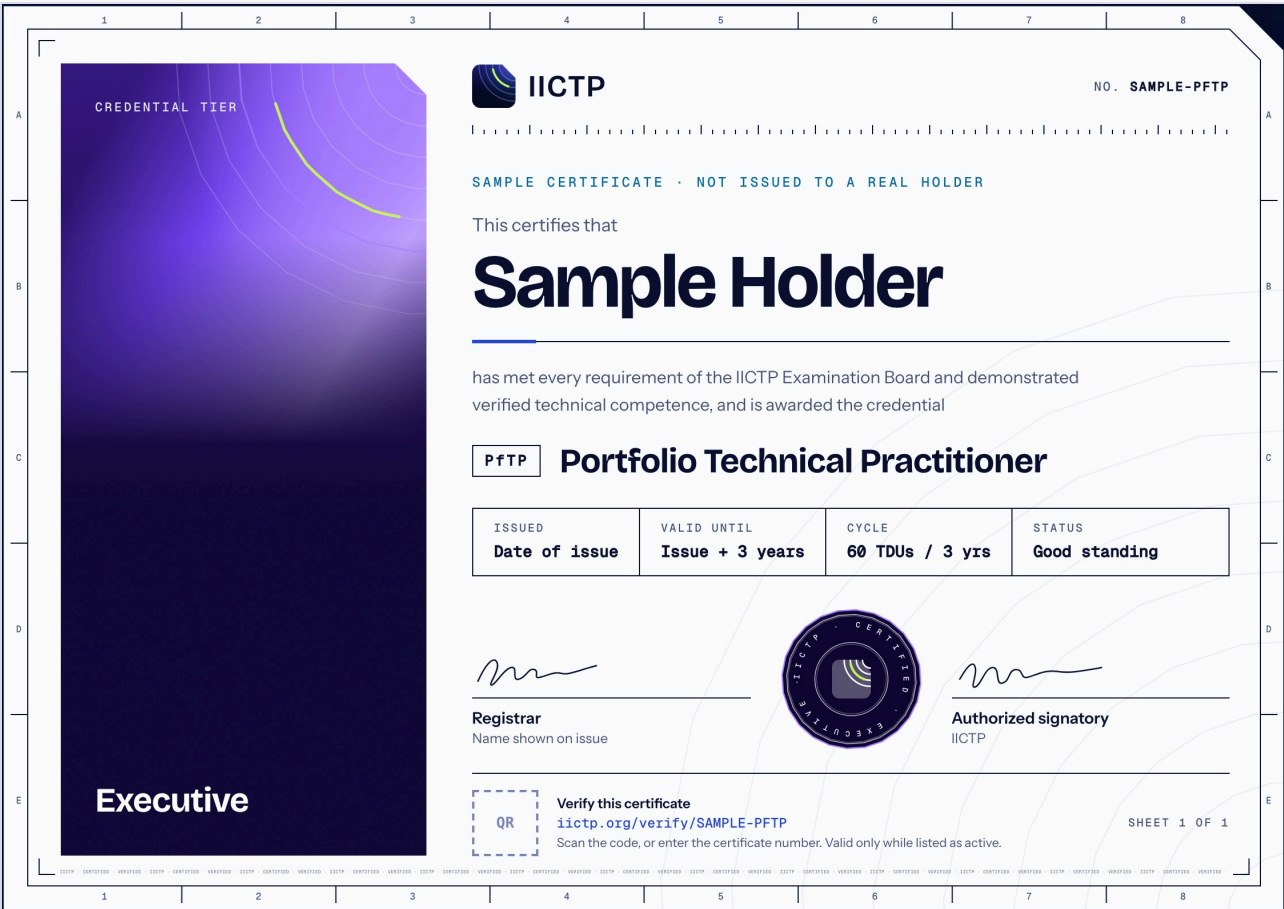
Architecture & Systems Design	20% · about 36 of 180
Enterprise capital asset lifecycles, portfolio tech stacks, and M&A audit	
Engineering Governance & Agile Delivery	25% · about 45 of 180
Strategic investment prioritization, capital efficiency, and portfolio governance	
Applied AI & Emerging Tech Integration	20% · about 36 of 180
Board-level AI transformation, generative risk, and competitive differentiation	
Infrastructure & Security	15% · about 27 of 180
Global regulatory resilience, sovereign data residency, and cyber catastrophe mitigation	
People Leadership in Engineering	20% · about 36 of 180
Board advisory, executive recruitment, and enterprise compensation frameworks	

Focus areas

- Capital engineering allocation, ROI models, and technical venture due diligence
- M&A code audit, technical debt balance sheet risk, and intellectual property review
- Board-level AI stewardship, regulatory exposure, and corporate reputation resilience
- Executive succession planning, C-level alignment, and engineering compensation design

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

What a holder receives



Sample certificate for the PfTP®. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-PFTP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/pftp.json](#).

How a holder writes it

Sample Holder, PfTP®

Credential	PfTP® Portfolio Technical Practitioner
Certificate no.	SAMPLE-PFTP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.

PART III

The specialty track

Six focused credentials, each in one applied domain.





SPECIALTY TRACK

AIP

AI Practitioner

ENTERPRISE LLM FINE-TUNING, VECTOR EMBEDDINGS AND RAG SECURITY

Applied enterprise artificial intelligence and LLM system architecture. Covers retrieval-augmented generation pipelines, edge inference deployment, and compute optimization.

120

QUESTIONS

150

MINUTES

70%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



SPECIALTY TRACK

AI Practitioner AIP

At a glance

Who it is for	AI engineers, ML architects, applied research developers (2–5 years)
With a degree	Foundational software engineering experience + hands-on Python/LLM deployment (2+ years)
Without a degree	36 months hands-on software development and applied machine learning deployment
The exam	120 MCQs & practical evaluation scenarios, 150 minutes (planned format; may change)
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 45 TDUs in each cycle.
Post-nominal	AIP
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

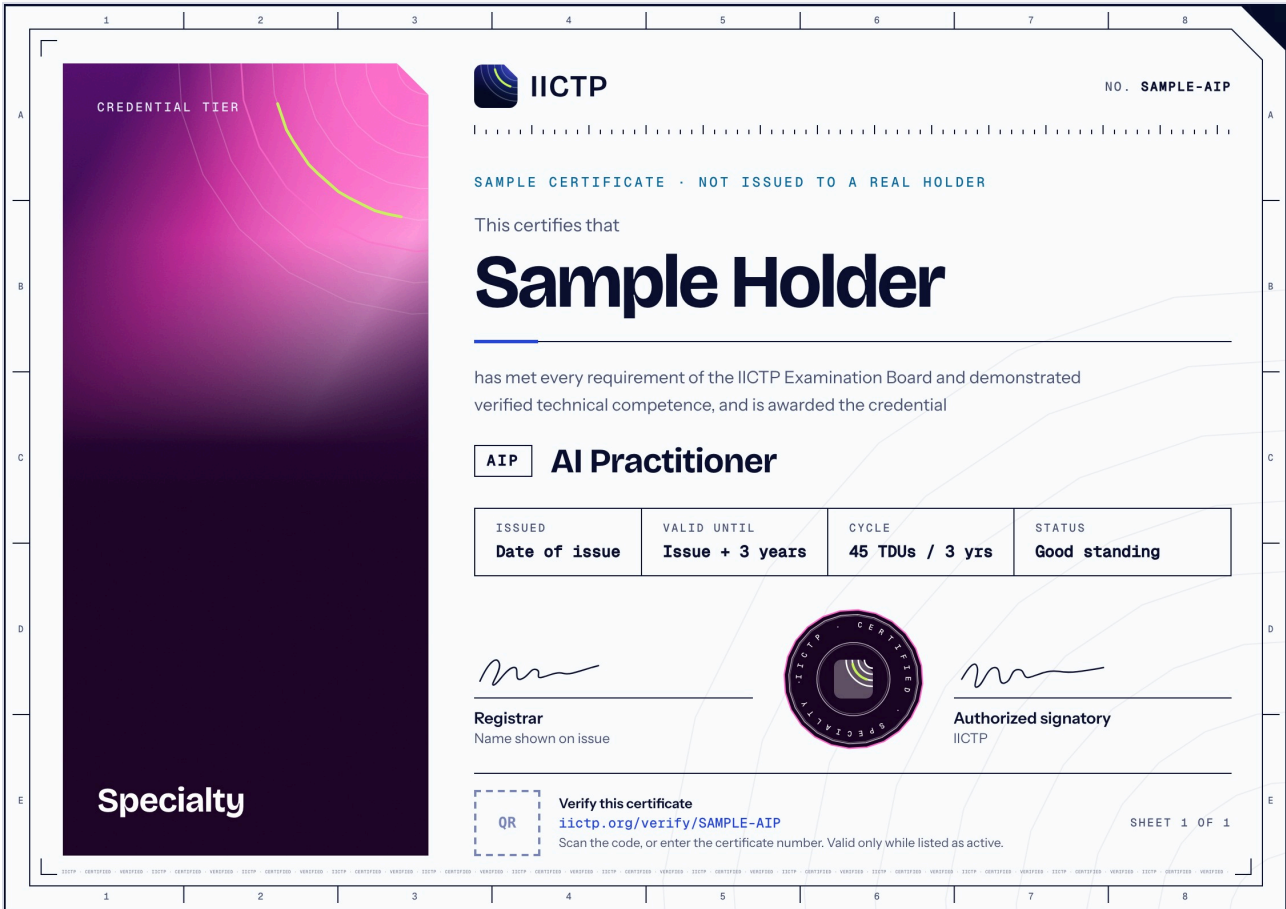
Architecture & Systems Design	26% · about 31 of 120
RAG topologies, vector search embeddings, semantic caching, and streaming APIs	
Engineering Governance & Agile Delivery	18% · about 22 of 120
Evaluation benchmarks (MMLU, HumanEval), regression testing, and hallucination monitoring	
Applied AI & Emerging Tech Integration	36% · about 43 of 120
Fine-tuning vs in-context learning, function calling, agentic loops, and multi-modal models	
Infrastructure & Security	14% · about 17 of 120
Model jailbreak prevention, PII scrubbing, private model hosting, and token rate limits	
People Leadership in Engineering	6% · about 7 of 120
Internal AI ethics policies, responsible disclosure, and team enablement	

Focus areas

- Retrieval-augmented generation (RAG) chunking, indexing, and reranking architectures
- Model parameter optimization, LoRA fine-tuning, and prompt caching strategies
- Prompt injection defense, data leakage mitigation, and automated LLM evaluation
- Compute cost benchmarking: GPU inference vs serverless token endpoints

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

What a holder receives



Sample certificate for the AIP. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-AIP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/aip.json](#).

How a holder writes it

Sample Holder, AIP

Credential	AIP AI Practitioner
Certificate no.	SAMPLE-AIP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



SPECIALTY TRACK

CAP

Cloud Architecture Practitioner

MULTI-CLOUD TOPOLOGY, HYBRID MESH AND SOVEREIGN CLOUD GOVERNANCE

Design resilient multi-cloud architectures, sovereign infrastructure, and hybrid cloud mesh networks without single-vendor lock-in.

120

QUESTIONS

150

MINUTES

70%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



SPECIALTY TRACK

Cloud Architecture Practitioner CAP

At a glance

Who it is for	Cloud architects, DevOps leads, systems engineers (3–6 years)
With a degree	Hands-on experience deploying multi-region or hybrid cloud infrastructure (3+ years)
Without a degree	48 months hands-on cloud systems engineering and networking
The exam	120 architecture-scenario items, 150 minutes (planned format; may change)
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 45 TDUs in each cycle.
Post-nominal	CAP
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

Architecture & Systems Design 34% · about 41 of 120

Hybrid mesh architectures, cloud-agnostic abstractions, and resilient distributed storage

Engineering Governance & Agile Delivery 16% · about 19 of 120

Terraform/OpenTofu pipeline standards, drift detection, and automated canary rollouts

Applied AI & Emerging Tech Integration 10% · about 12 of 120

Cloud AI managed endpoints vs self-hosted Kubernetes GPU clusters

Infrastructure & Security 34% · about 41 of 120

Identity Federation (OIDC/SAML), DDoS mitigation, egress controls, and FinOps

People Leadership in Engineering 6% · about 7 of 120

Cloud Center of Excellence (CCoE) governance and multi-cloud architectural reviews

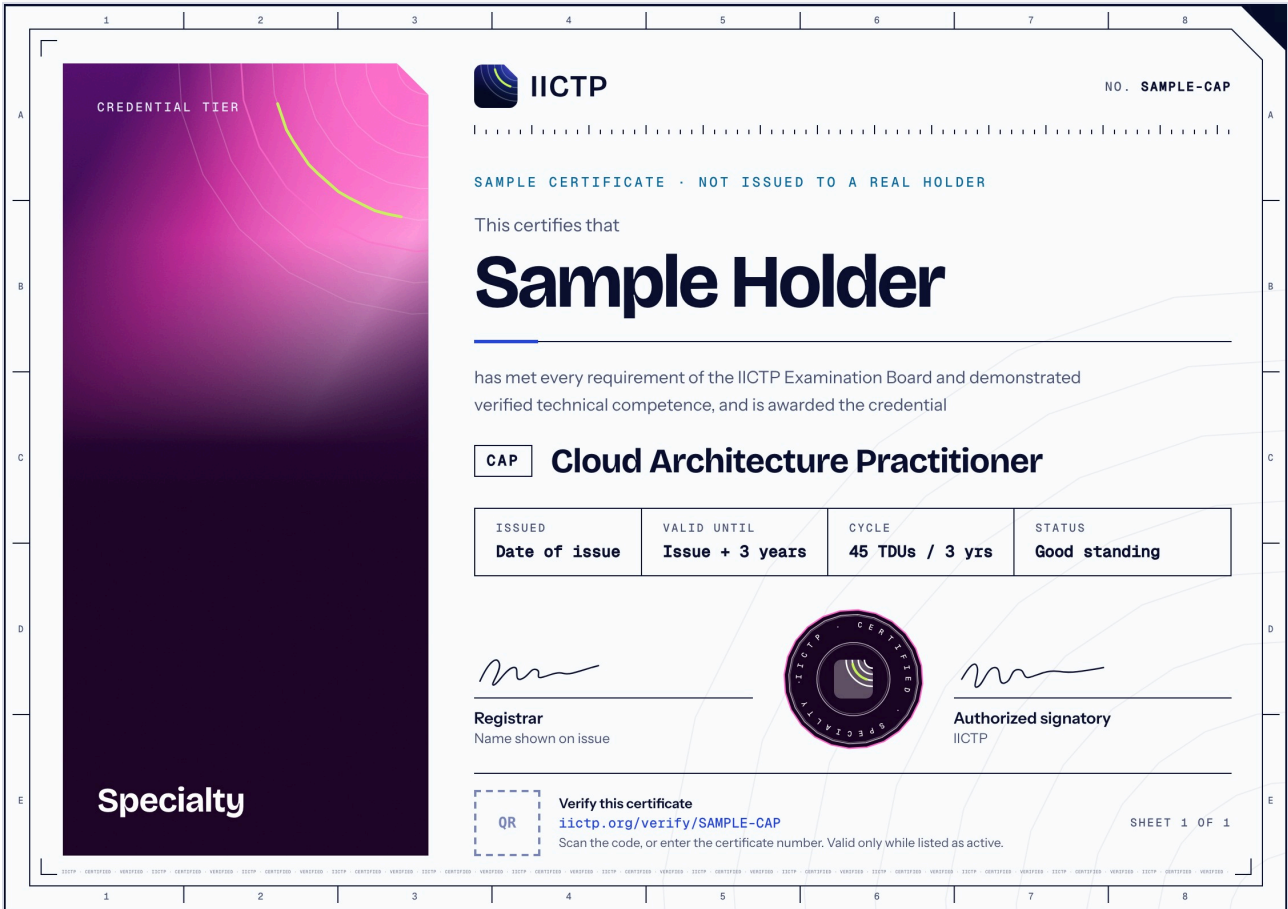
Focus areas

- Vendor-neutral multi-cloud topologies and egress minimization strategies
- Zero-trust perimeter security, VPC peering, and service mesh governance
- FinOps practices: spot instance fleets, reserved capacity, and architectural cost modeling
- Multi-region high availability, geo-distributed database replication, and chaos engineering

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

CAP · Sample certificate and badge

What a holder receives



Sample certificate for the CAP. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-CAP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/cap.json](#).

How a holder writes it

Sample Holder, CAP

Credential	CAP Cloud Architecture Practitioner
Certificate no.	SAMPLE-CAP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



SPECIALTY TRACK

ADP

Agile Delivery Practitioner

GITOPS, AUTOMATED CI/CD CANARY GATES AND TRUNK-BASED DELIVERY

Validates expertise in technical agility governance, DORA metric optimization, release trains, automated canary pipelines, and trunk-based delivery.

100

QUESTIONS

120

MINUTES

70%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



SPECIALTY TRACK

Agile Delivery Practitioner ADP

At a glance

Who it is for	Delivery leads, release managers, agile technical coaches (2–5 years)
With a degree	24 months managing software delivery pipelines and agile team practices
Without a degree	36 months software delivery coordination and CI/CD operations
The exam	100 scenario-based questions, 120 minutes (planned format; may change)
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 45 TDUs in each cycle.
Post-nominal	ADP
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

Architecture & Systems Design 16% · about 16 of 100

Modular architectures supporting independent squad deployability and feature toggling

Engineering Governance & Agile Delivery 42% · about 42 of 100

Trunk-based development, release trains, DORA metrics, and agile governance

Applied AI & Emerging Tech Integration 12% · about 12 of 100

AI-assisted code reviews, automated test suite generation, and CI failure triage

Infrastructure & Security 18% · about 18 of 100

Supply chain security (SLSA, SBOMs), automated rollback criteria, and artifact signing

People Leadership in Engineering 12% · about 12 of 100

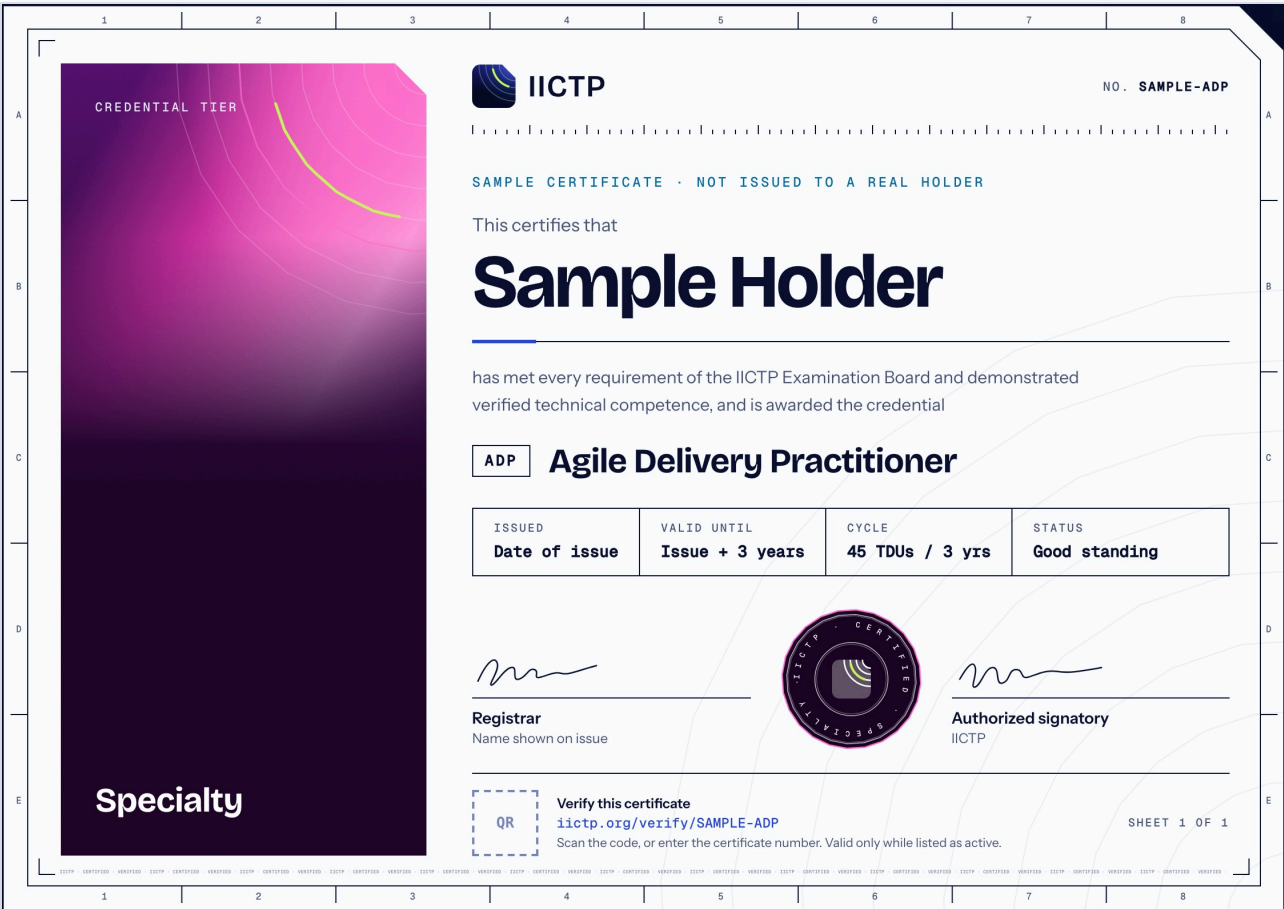
Blameless incident culture, squad facilitation, and agile engineering coaching

Focus areas

- GitOps pipelines, automated canary gates, and trunk-based deployment practices
- DORA metric optimization: Deployment Frequency, Lead Time, MTTR, Change Failure Rate
- Technical debt cataloging, dependency vulnerabilities, and automated security scans
- Blameless retrospective execution and cross-squad release synchronization

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

What a holder receives



Sample certificate for the ADP. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-ADP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/adp.json](#).

How a holder writes it

Sample Holder, ADP

Credential	ADP Agile Delivery Practitioner
Certificate no.	SAMPLE-ADP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



SPECIALTY TRACK

IESP

IoT & Embedded Systems

EMBEDDED MICROCONTROLLERS, CAN BUS, MQTT AND EDGE GATEWAY TELEMETRY

Specialized engineering in edge computing, real-time operating systems, industrial protocol security, and fault-tolerant telemetry.

100

QUESTIONS

120

MINUTES

70%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



SPECIALTY TRACK

IoT & Embedded Systems IESP

At a glance

Who it is for	Embedded firmware developers, IoT systems architects (2–6 years)
With a degree	Demonstrated experience with C/C++, RTOS, or industrial telemetry protocols (2+ years)
Without a degree	36 months firmware or industrial embedded systems programming
The exam	100 MCQs + system diagnostics case studies, 120 minutes (planned format; may change)
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 45 TDUs in each cycle.
Post-nominal	IESP
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

Architecture & Systems Design	32% · about 32 of 100
Embedded memory layout, interrupts, RTOS concurrency, and low-power telemetry	
Engineering Governance & Agile Delivery	16% · about 16 of 100
Hardware-in-the-loop (HIL) automation, firmware regression testing, and versioning	
Applied AI & Emerging Tech Integration	14% · about 14 of 100
TinyML on microcontrollers, edge sensor anomaly inference, and quantization	
Infrastructure & Security	30% · about 30 of 100
Secure boot, cryptographic hardware roots, dual-bank OTA updates, and CAN bus isolation	
People Leadership in Engineering	8% · about 8 of 100
Hardware/software co-development synchronization and safety compliance audits	

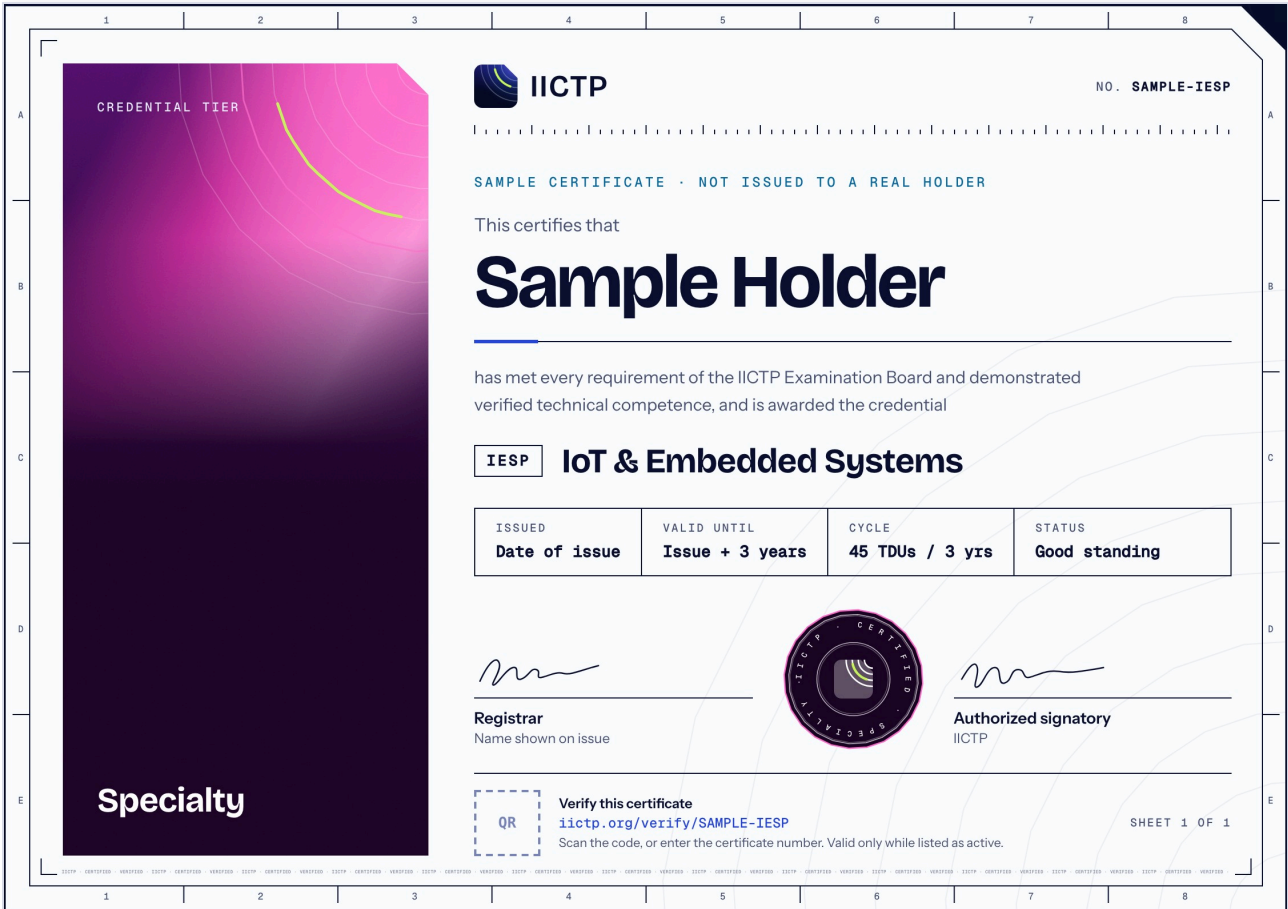
Focus areas

- Microcontroller firmware optimization, memory constraints, and RTOS task scheduling
- Industrial protocol integration: CAN bus, Modbus, MQTT, and CoAP telemetry
- Hardware root of trust, secure bootloaders, and tamper-resistant cryptographic chips
- Fault-tolerant Over-The-Air (OTA) firmware rollback and low-power radio communication

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

IESP · Sample certificate and badge

What a holder receives



Sample certificate for the IESP. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-IESP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/iesp.json](#).

How a holder writes it

Sample Holder, IESP

Credential	IESP IoT & Embedded Systems
Certificate no.	SAMPLE-IESP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



SPECIALTY TRACK

LLMP

Local LLM Practitioner

4-BIT/8-BIT QUANTIZATION (GGUF/AWQ), NPU/GPU MEMORY AND LOCAL MODEL ENGINES

Deploy high-throughput generative AI locally and on sovereign edge hardware. Covers GGUF/AWQ quantization, GPU memory bounds, and air-gapped security.

90

QUESTIONS

120

MINUTES

70%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



SPECIALTY TRACK

Local LLM Practitioner **LLMP**

At a glance

Who it is for	Systems engineers, local AI engineers, security-focused developers (2–5 years)
With a degree	Experience deploying local inference engines (vLLM, llama.cpp, TensorRT-LLM) (2+ years)
Without a degree	36 months systems engineering, local AI hosting, and GPU/NPU acceleration
The exam	90 technical design questions, 120 minutes (planned format; may change)
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 45 TDUs in each cycle.
Post-nominal	LLMP
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

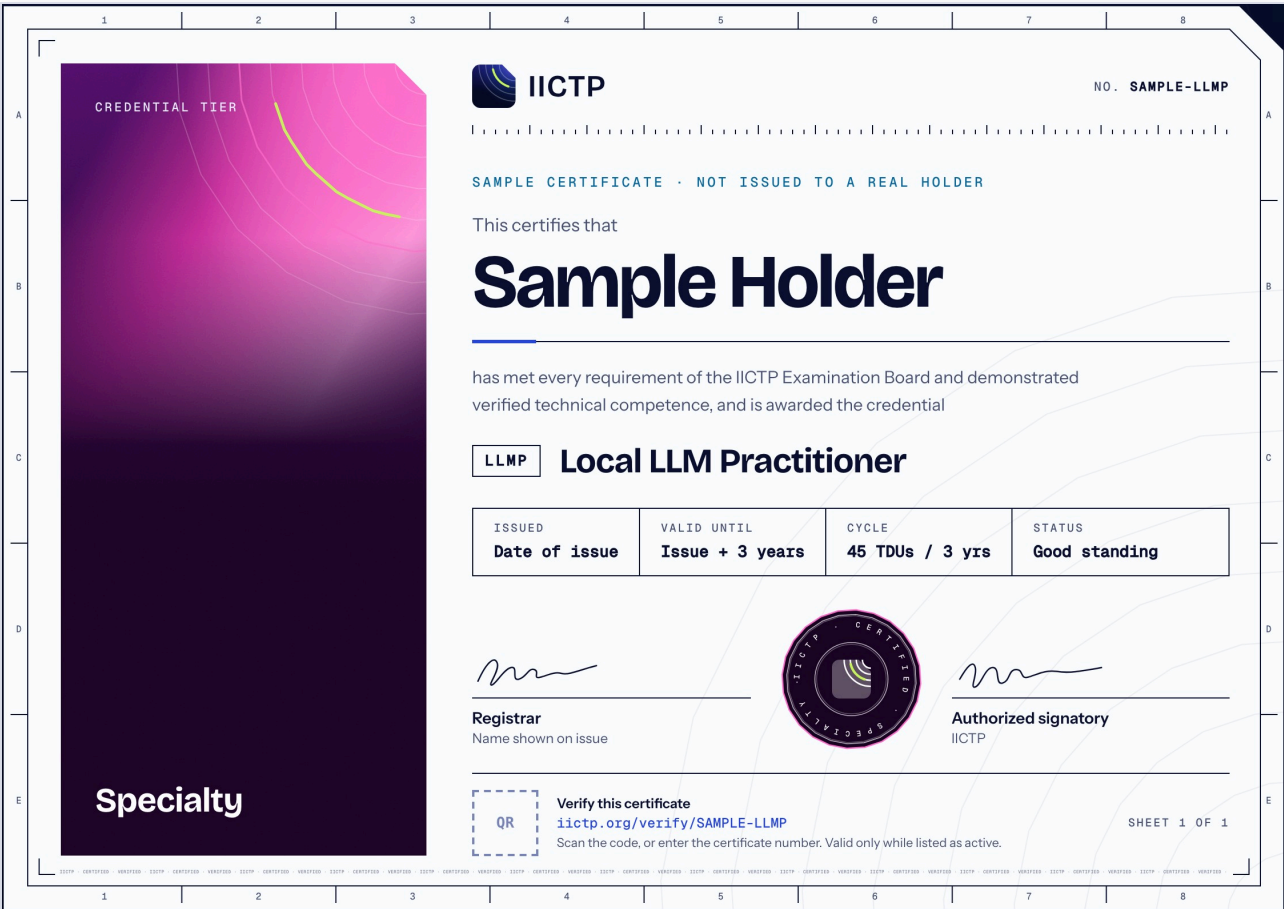
Architecture & Systems Design	30% · about 27 of 90
Quantization formats, memory bandwidth calculations, KV-cache management, and latency	
Engineering Governance & Agile Delivery	15% · about 14 of 90
Air-gapped test validation, benchmark reproducibility, and model audit records	
Applied AI & Emerging Tech Integration	35% · about 31 of 90
Inference runtime optimization (vLLM, Ollama, llama.cpp), tool calling, and embeddings	
Infrastructure & Security	16% · about 14 of 90
Air-gapped server configurations, sovereign data compliance, and physical memory wiping	
People Leadership in Engineering	4% · about 4 of 90
Developer workstation enablement and internal privacy compliance education	

Focus areas

- Quantization algorithms: GGUF, AWQ, GPTQ, EXL2, and precision degradation benchmarks
- Inference server architectures: continuous batching, PagedAttention, and KV-cache sizing
- Air-gapped deployment security, zero-outbound network enforcement, and sovereign privacy
- Local hardware topologies: Unified memory (Apple Silicon), multi-GPU rigs, and NPU offloading

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

What a holder receives



Sample certificate for the LLMP. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-LLMP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/llmp.json](#).

How a holder writes it

Sample Holder, LLMP

Credential	LLMP Local LLM Practitioner
Certificate no.	SAMPLE-LLMP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



SPECIALTY TRACK

CSTP

Clean Software Telemetry

CARBON INTENSITY TELEMETRY, PUE MINIMIZATION AND GREEN SOFTWARE

Carbon-aware software engineering. Optimize algorithmic computational intensity, data center power usage effectiveness, and sustainable system lifecycles.

80

QUESTIONS

90

MINUTES

70%

PASS MARK

3

YEARS VALID

PLANNED · NOT YET OPEN



SPECIALTY TRACK

Clean Software Telemetry CSTP

At a glance

Who it is for	Cloud architects, software engineers, sustainability tech officers (2–5 years)
With a degree	Knowledge of distributed computing architectures and energy profiling (2+ years)
Without a degree	36 months software development and system resource optimization
The exam	80 scenario & calculation questions, 90 minutes (planned format; may change)
Pass mark	70% scaled score, no negative marking
Retake	1 retake included within 12 months
Credential lasts	3 years. Renew by earning 30 TDUs in each cycle.
Post-nominal	CSTP
Digital badge	Verifiable online badge
Exam fee	To be announced before the exam opens
Status	Planned · not yet open

What the exam covers

Architecture & Systems Design	28% · about 22 of 80
Carbon-aware design, asynchronous computation queues, and energy-minimalist caching	
Engineering Governance & Agile Delivery	24% · about 19 of 80
Carbon budgeting in CI/CD, sustainability regression tests, and DORA carbon metrics	
Applied AI & Emerging Tech Integration	16% · about 13 of 80
Energy auditing for AI training vs inference, model quantization efficiency, and pruning	
Infrastructure & Security	26% · about 21 of 80
Clean cloud region selection, idle workload reclamation, and low-power container runtime	
People Leadership in Engineering	6% · about 5 of 80
ESG engineering reporting, team environmental awareness, and stakeholder metrics	

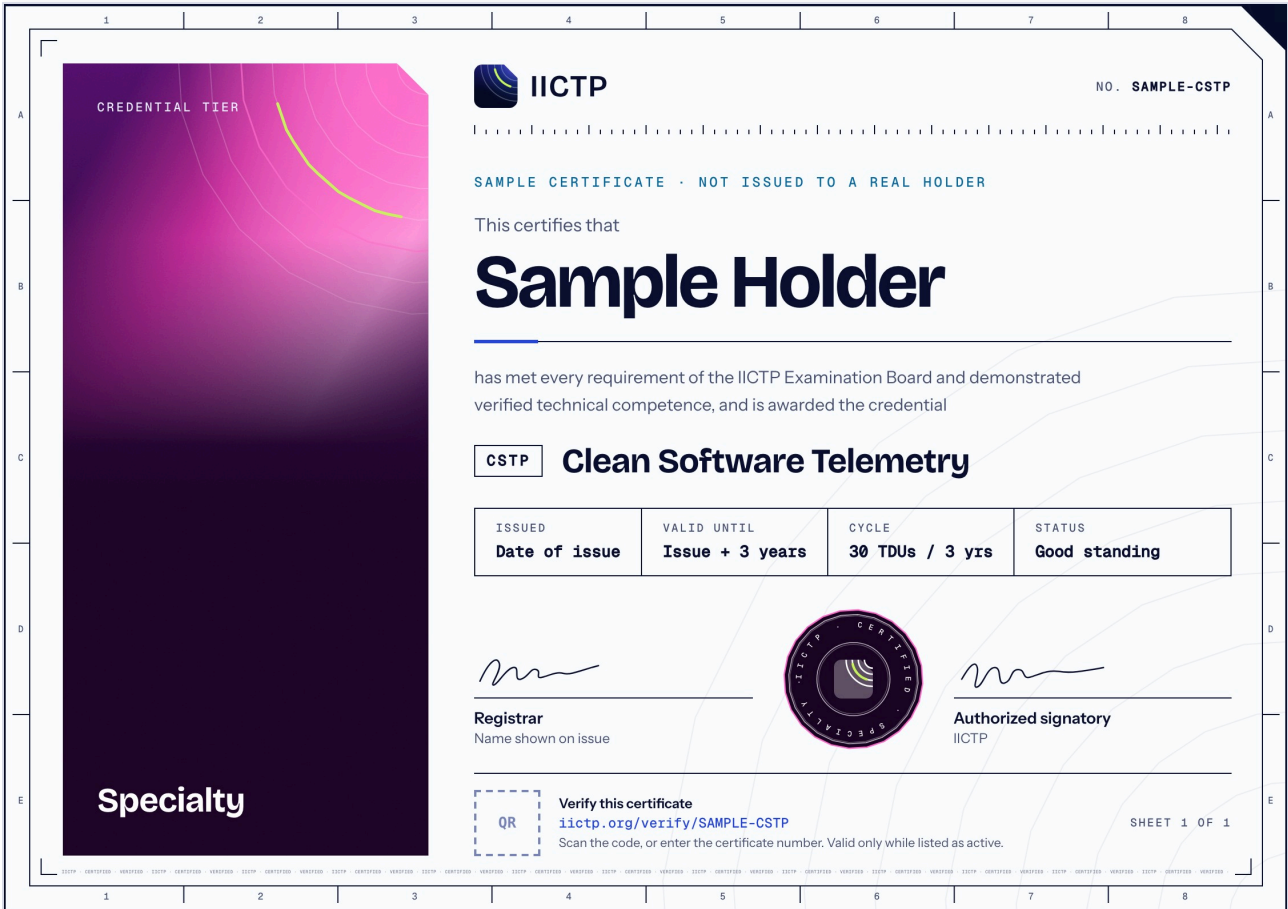
Focus areas

- Carbon-aware software patterns: temporal and spatial workload shifting to low-carbon grid hours
- Computational efficiency profiling: CPU instructions, memory churn, and network payload reduction
- Power Usage Effectiveness (PUE) and Scope 2/3 GHG protocol software emission accounting
- Automated carbon telemetry reporting integrated into continuous delivery pipelines

Domain shares are the intended share of questions and may be refined as the exam bank is calibrated.

CSTP · Sample certificate and badge

What a holder receives



Sample certificate for the CSTP. It was not issued to any person.

The digital badge



Shown at three sizes. Files: [IICTP-CSTP-Badge.svg](#) and [.png](#) (1000 × 1000). Machine-readable description: [open-badges/cstp.json](#).

How a holder writes it

Sample Holder, CSTP

Credential	CSTP Clean Software Telemetry
Certificate no.	SAMPLE-CSTP
Issue date	Date of issue
Status	Certified in Good Standing

The public registry entry (sample). Exam scores and contact details are never listed.



PART IV

Reference



Comparison tables, eligibility, guidance on using a credential, and a glossary.



PART IV · REFERENCE

All ten at a glance

Credential	Tier	Questions	Time	Pass	TDUs / 3 yrs	Status
ATP® Associate Technical Practitioner	Foundational	100	120 min	65%	30	Open for booking
CTP® Certified Technical Practitioner	Practitioner	150	180 min	70%	60	Open for booking
PgTP® Program Technical Practitioner	Executive	170	210 min	75%	60	Planned · not yet open
PfTP® Portfolio Technical Practitioner	Executive	180	240 min	75%	60	Planned · not yet open
AIP AI Practitioner	Specialty	120	150 min	70%	45	Planned · not yet open
CAP Cloud Architecture Practitioner	Specialty	120	150 min	70%	45	Planned · not yet open
ADP Agile Delivery Practitioner	Specialty	100	120 min	70%	45	Planned · not yet open
IESP IoT & Embedded Systems	Specialty	100	120 min	70%	45	Planned · not yet open
LLMP Local LLM Practitioner	Specialty	90	120 min	70%	45	Planned · not yet open
CSTP Clean Software Telemetry	Specialty	80	90 min	70%	30	Planned · not yet open

All ten: timed online exam, scaled score, no negative marking, one retake included within 12 months, credential valid for 3 years. Planned credentials may change before their exams open.

PART IV · REFERENCE

Who can sit each exam

Credential	With a degree	Without a degree
ATP®	Secondary diploma or equivalent + 23 contact hours technical coursework	Secondary diploma + 23 contact hours technical coursework
CTP®	Bachelor's degree + 36 months technical leadership experience	High school diploma + 60 months technical leadership experience
PgTP®	Bachelor's degree + 48 months project leadership + 48 months program engineering management	High school diploma + 84 months multi-squad engineering program management
PfTP®	96 months professional technical business experience including 48 months in portfolio leadership	120 months technical business experience including 48 months portfolio leadership
AIP	Foundational software engineering experience + hands-on Python/LLM deployment (2+ years)	36 months hands-on software development and applied machine learning deployment
CAP	Hands-on experience deploying multi-region or hybrid cloud infrastructure (3+ years)	48 months hands-on cloud systems engineering and networking
ADP	24 months managing software delivery pipelines and agile team practices	36 months software delivery coordination and CI/CD operations
IESP	Demonstrated experience with C/C++, RTOS, or industrial telemetry protocols (2+ years)	36 months firmware or industrial embedded systems programming
LLMP	Experience deploying local inference engines (vLLM, llama.cpp, TensorRT-LLM) (2+ years)	36 months systems engineering, local AI hosting, and GPU/NPU acceleration
CSTP	Knowledge of distributed computing architectures and energy profiling (2+ years)	36 months software development and system resource optimization

PART IV · REFERENCE

Choosing a credential

Credential	Who it is for	Focus
ATP®	Junior Developers, Associate PMs, QA Leads (0–2 years)	SDLC, basic systems architecture, agile delivery fundamentals
CTP®	Tech leads, engineering managers, senior IT PMs (3–7 years)	System design, architecture trade-offs, risk, sprint governance, team delivery
PgTP®	Technical program managers, multi-squad leads, principal architects (7–12 years)	Cross-system scaling, multi-squad governance, technical debt, budget orchestration
PfTP®	VP of Engineering, Chief Architects, CTOs, Portfolio Directors (10+ years)	Enterprise capital allocation, technical risk governance, executive stakeholder alignment
AIP	AI engineers, ML architects, applied research developers (2–5 years)	Model selection & fine-tuning, RAG pipelines, AI safety, compute optimization
CAP	Cloud architects, DevOps leads, systems engineers (3–6 years)	Distributed patterns, multi-cloud networking, FinOps, resilience engineering
ADP	Delivery leads, release managers, agile technical coaches (2–5 years)	Technical debt management, release train orchestration, DORA throughput metrics
IESP	Embedded firmware developers, IoT systems architects (2–6 years)	Telematics, CAN bus interfaces, industrial IoT security, MQTT/AMQP scaling
LLMP	Systems engineers, local AI engineers, security-focused developers (2–5 years)	Quantization formats, hardware topologies, local GPU/NPU sizing, sovereign data
CSTP	Cloud architects, software engineers, sustainability tech officers (2–5 years)	Carbon-aware software design, compute-efficiency algorithms, energy optimization

A specialty credential does not make you the holder of a core credential, and the other way round. State the credential you hold.

PART IV · REFERENCE

Using your credential and badge

Do	Do not
Show the badge at its original proportions and colours.	Stretch, recolour, crop, animate or add effects to a badge.
Link the badge to your registry record.	Alter a registry result or build a lookalike certificate.
Say you “hold” or “are certified as” your credential.	Say IICTP endorses or recommends you or your product without its agreement.
Use the post-nominal while the credential is current.	Keep using it after the credential has expired, lapsed or been withdrawn, unless you say it is lapsed and give the dates.

Badge files may be downloaded by anyone. Showing a badge in public as your own credential is for holders of that credential only. The full rules are on the Trademark and Brand Use page at iictp.org.

PART IV · REFERENCE

Glossary

**Authorized Training Partner**

An organisation licensed by IICTP to offer training for its credentials. Training fees are set by the partner and are not part of the exam fee.

Blueprint

The published description of an exam: its length, pass mark and the share of questions from each TPBOK domain.

Digital badge

A verifiable online image of a credential that its holder can show and link to their registry record.

Post-nominal

The credential's letters written after a holder's name, for example "Sample Holder, CTP®".

Registry record

The public entry for a credential: name, title, certificate number, issue date and status.

Sample certificate

An illustration of a certificate that was not issued to anyone.

Scaled score

A score adjusted so that the pass mark means the same standard on every version of an exam.

Tier

The group a credential belongs to: Foundational, Practitioner, Executive or Specialty.

TPBOK™

The Technical Practitioner Body of Knowledge: ten principles and the task statements every IICTP exam is built from.

TDU

Technical Development Unit. One TDU is one hour of learning or giving back. Credentials are renewed by earning TDUs.

Ten credentials. One body of knowledge.

Every IICTP exam is built from the TPBOK™, the Technical Practitioner Body of Knowledge, and every credential is recorded in a public registry that anyone can check.

Learn more, check a credential, or book an exam at iictp.org.