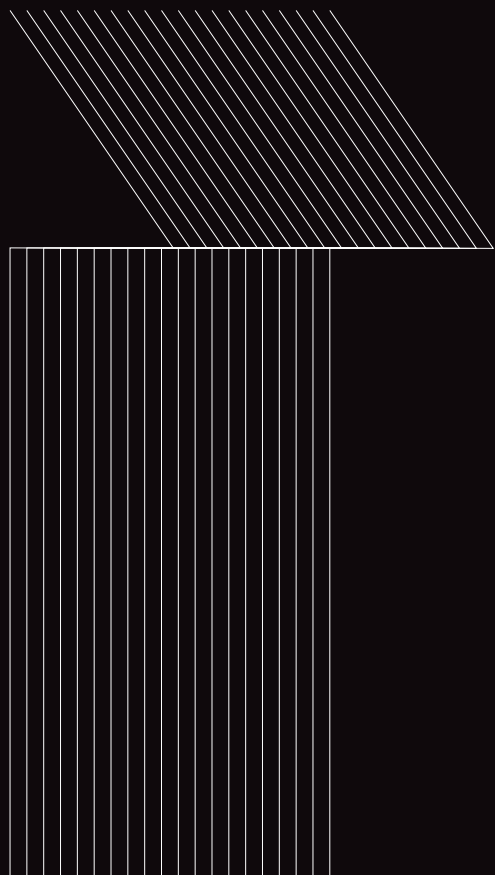


2-DAYS WORKSHOP



WORLD'S FIRST ANAB-ACCREDITED CERTIFICATION PROGRAM ON QUANTUM SECURITY

CERTIFIED
QUANTUM SECURITY
PROFESSIONAL
(CQSP)



Prepare for the Quantum Shift in Cybersecurity

Quantum computing is no longer a distant concept - its breakthroughs are accelerating, and with them comes a fundamental threat to today's encryption standards. **Certified Quantum Security Professional (CQSP) - World's first ANAB - accredited certification program in quantum security** is purpose - built to equip cybersecurity professionals with the knowledge and skills needed to secure digital infrastructure against quantum-era threats. From quantum-safe cryptography to risk management and compliance, CQSP offers a future-focused, globally aligned certification that ensures you're ready to lead your organization into a quantum-secure future.




About the Training

The Certified Quantum Security Professional (CQSP) training program is a comprehensive, 16-hour hands-on course designed to equip cybersecurity professionals with the skills and tools necessary to safeguard digital assets in the post-quantum era.


Key Focus Areas



Foundation of Quantum Computing and Cryptograph



Quantum Threats, Risk, and Mitigation



Quantum-Safe Migration Strategy

01

02

03

04

05

06



Quantum Cryptography and Key Distribution

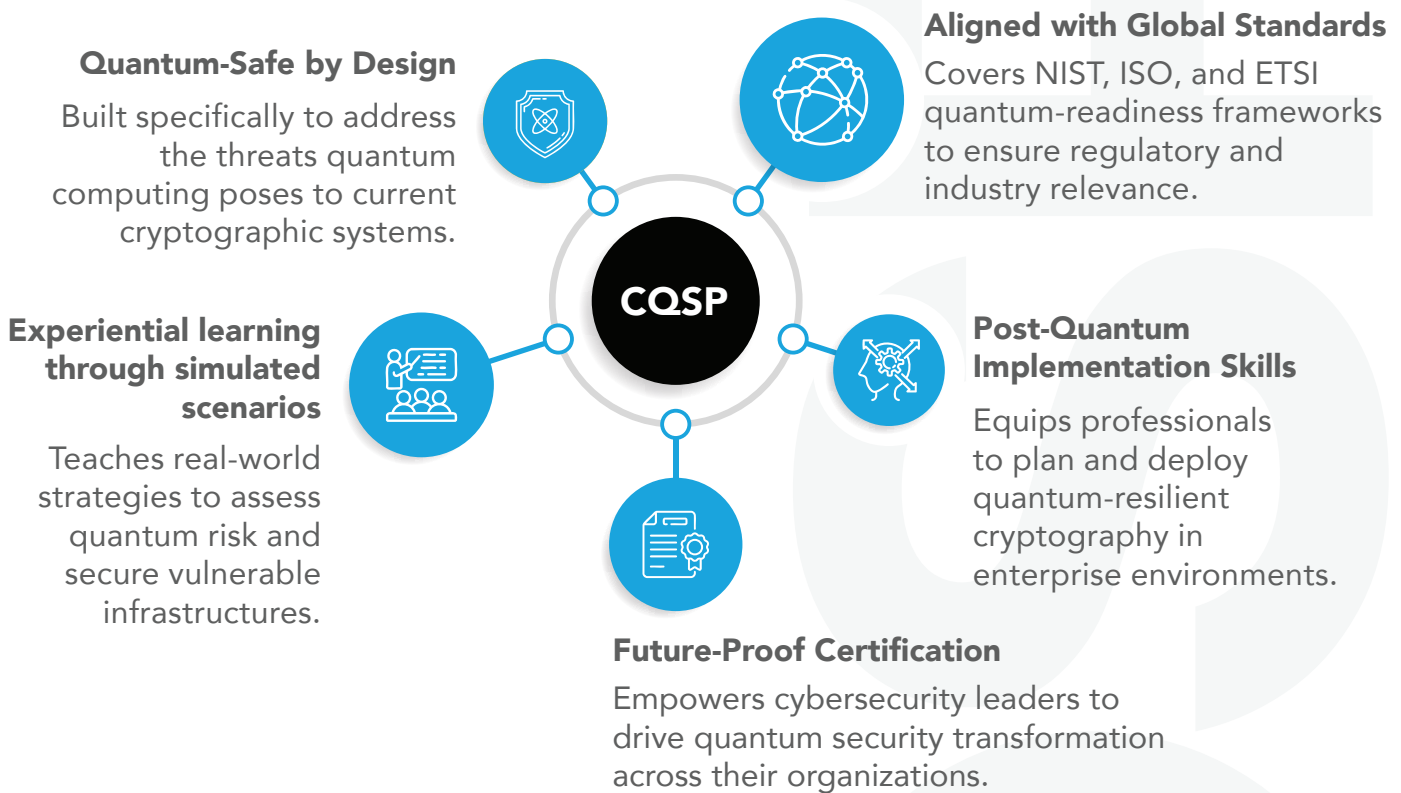


Post-Quantum Cryptographic Standards and Guidelines



Hands-on training in virtual environment

What Sets CQSP Training Apart



Training Highlights



Duration

16 hours (available as 2 full days or 4 half-day sessions)



Delivery Mode

Instructor - led live sessions, either Online or On-site



Format

Combination of theory, hands - on labs, and real-world case studies



Skill Level

Intermediate to Advanced cybersecurity professionals



Certification

Certificate of Completion with eligible CPE credits

Who Should Attend

01

CISOs & Security Architects

02

Cryptography Professionals

03

GRC & Compliance Experts

04

Cloud and App Security Engineers

05

Technology Risk Consultants

CQSP 2 Day Workshop Agenda

DAY 1

Module	Description
Module - 1	Introduction to Cryptography
Module - 2	Introduction to Quantum Computing
Lab Exercise - 1	Building a dual - qubit quantum circuit using Qiskit
Lab Exercise - 2	Visualising the States of Qubits in form of a Bloch Sphere
Module - 3	Quantum Protocol and Cryptography
Module - 4	Quantum Threats
Lab Exercise - 3	Measuring the Qubits in Classical Bits and Plotting it's Probability.
Lab Exercise - 4	Building a dual - qubit quantum circuit with entangled qubits using Qiskit
Module - 5	Quantum Standards and Global Compliance
Lab Exercise - 5	Visualising the States of Qubits in form of a Bloch Sphere

DAY 2

Module	Description
Module - 6	Cryptographic Inventory Management and Assessment
Module - 7	Quantum Safe Migration
Module - 8	Quantum Risk Assessment
Module - 9	Crypto Agility
Lab Exercise - 6	Measuring the Entangled Qubits in Classical Bits and Plotting it's Probability.
Lab Exercise - 7	Simulating Quantum Key Distribution Between Alice and Bob, using Qiskit.
Lab Exercise - 8	Simulating Quantum Key Distribution Between Alice and Bob with eavesdropper Eve, using Qiskit.
Lab Exercise - 9	Simulating Quantum Key Distribution Between Alice and Bob, using Cirq.
Lab Exercise - 10	Simulating (PQC) Key Exchange between Alice and Bob, using Cirq.

About Trainers

Mr. Avinash Selvamani

CISSP | CCSP | PCI QSA | PCI QPA | PCI CPSA (P) | PCI CPSA (L) | SWIFT Certified Assessor | ISO 27001:2013 | PCI DSS v3.2.1 | ISO 27017:2015 | BS 10012:2017

Avinash Selvamani is an Associate Director for Quantum Security at SISA. He works with the Risk and Compliance delivery team globally and comes from a strong technical background with deep security expertise across various streams in the IT industry. He has conducted onsite audits and consulting engagements across the globe and has assessed organizations against multiple frameworks including ISO 27001:2013, GDPR, SOC I & II, HITRUST, NIST, CIS, SAMA, ANSSI, FFIEC, FRB & SWIFT, in addition to payment security standards.

Avinash demonstrates strong proficiency in Information Security Audits, Governance, Risk Management & Compliance, Cybersecurity Architecture, Cryptography, Network Security, Application Security, and both Offensive & Defensive Security. He holds certifications including SWIFT CSP Assessor, PCI CPSA (L), PCI CPSA (P), PCI QPA, PCI QSA, CCSP, CISSP, ISO 27017:2015, BS 10012:2017, and ISO 27001:2013.

As part of SISA's forward-looking security initiatives, Avinash has gained working exposure to Quantum Security concepts, including participation in internal programs focused on quantum risk awareness, cryptographic inventory readiness, and understanding the implications of quantum computing on payment systems. He continues to build competency in this emerging field while supporting client engagements that include early-stage quantum risk preparedness. He is currently involved in projects across Payment Brands, Payment Gateways, Third Party Processors, ATM Applications, IT Companies, Software Development, E-commerce and M-commerce platforms, Telecommunications, and BPOs.



TRAINER
1

Mr. Dito Kannan

Certified Payment Industry Security Implementer (CPISI) | ISO27001:2013 Lead Implementer | ISO27017:2015 Lead Implementer | PCI DSS v3.2.1 Lead Implementer | ISO 27001:2022 Lead Auditor

Dito Kannan is a Manager for Quantum Security at SISA. Dito Kannan works with the Risk and Compliance delivery team globally within SISA. He comes from a strong technical background with security expertise across various streams in the IT Industry. Onsite Audits and Consulting across the globe. Has performed assessments against various standards such as ISO 27001:2013, GDPR, SOC I & II, NIST, CIS apart from the payment security standards.

Dito demonstrates strong expertise in Information Security Audits, Governance, Risk Management & Compliance, Cybersecurity Architecture, Cryptography, Network Security, Application Security, PCI DSS, PCI PIN, PCI P2PE.

As part of SISA's forward-looking security initiatives, Dito has developed hands-on exposure to Quantum Security, actively participating in internal programs focused on quantum risk awareness, cryptographic inventory readiness, and the implications of quantum computing on payment ecosystems.

Dito is currently involved in multiple projects across diverse sectors, including Payment Brands, Gateways, Third - Party Processors, ATM Applications, IT Services, Software Development, and E-commerce.



TRAINER
2

Become a Certified Quantum Security Professional

Earn the **Certified Quantum Security Professional (CQSP)** credential by successfully completing the certification exam and meeting the eligibility requirements outlined below.

Exam Details



Duration
1 hour



Format
50 Questions



Passing Criteria
66%

CQSP Certification Blueprint

Domain	No. of Questions	Weightage
Foundations of Quantum Computing and Cryptography	8	16%
Quantum Cryptography and Key Distribution	9	18%
Quantum Threats, Risks and Mitigation	9	18%
Post Quantum Cryptographic standards and Guidelines	7	14%
Quantum Safe Migration Strategy	9	18%
Hands-on training in virtual environment	8	16%

Eligibility Criteria

To appear for the CQSP exam, applicants must meet one of the following criteria

Criteria - 1

Applicant must possess min 1 year of experience in an Information Security system and cryptography basics.

OR

Criteria - 2

Applicant must have attended the 16-hour CQSP Workshop.

OR

Criteria - 3

Applicant must have attended an equivalent formal training of minimum 16 hours which covers topics as listed in the exam blueprint.

About SISA

SISA is a Global Leader in Cybersecurity Solutions for the Digital Payment Industry. As a Global Payment Forensic Investigator of the PCI Security Standards Council, we leverage forensics insights into preventive, detective, and corrective security solutions, protecting 1,000+ organizations across 40+ countries from evolving cyberthreats. Our suite of solutions from AI-driven compliance, advanced security testing, agentic detection/ response and learner focused-training has been honored with prestigious awards, including from Financial Express, DSCI-NASSCOM and The Economic Times. With commitment to innovation, and pioneering advancements in Quantum Security, Hardware Security, and Cybersecurity for AI, SISA is shaping the future of cybersecurity through cutting-edge forensics research.

Compliance	Security Testing	Cyber Defense	Data Protection & Governance	Trainings & Certifications	Leading Tech Security
Payment Data Security <ul style="list-style-type: none"> • PCI DSS • PCI PIN • PCI 3DS • PCI P2PE • PCI S3 • PCI S-SLC • PCI CP (Card Production) • Facilitated PCI SAQ • Quarterly Health Check-ups • Central Bank Compliance • SWIFT Strategy and Risk <ul style="list-style-type: none"> • CCPA • GDPR • HIPAA • ISO • NIST • SOC 1 • SOC 2 • Cloud Security • HITRUST Unified Audits Managed Compliance	Application Security <ul style="list-style-type: none"> • Application Penetration Testing • CREST/CERT-in Approved Security Testing • API Security Testing • Secure Code Review Network Security <ul style="list-style-type: none"> • Vulnerability Assessment • Penetration Testing • Configuration Review • Firewall Rule Review • PCI ASV Scan Phishing Simulation Red Teaming Exercise <ul style="list-style-type: none"> • Layer Security Testing 	Managed Extended Detection and Response Solution - SISA ProACT <ul style="list-style-type: none"> • 24x7 Monitoring • UEBA • Threat Intel • Advanced Threat Hunting • Breach & Attack Simulation • SOAR • Use-case Factory Digital Forensics and Incident Response <ul style="list-style-type: none"> • Incident Response / Compromise Assessment Services • Forensic Readiness Audit • Forensic and Incident Response Retainer Service • PCI Forensic Investigation (PCI) • Internal Forensic Investigation (IFI) • Ransomware Simulation 	Data Discovery and Classification <ul style="list-style-type: none"> • PCI/PII/PHI Data Discovery • Data Classification in Endpoint (Windows, Linux) • Data Classification in O365, Metadata • Dynamic Masking, Redact, Truncation • Integration to DRM, DLP, SIEM Data Privacy Professional Services <ul style="list-style-type: none"> • Assessments (Unified Privacy Maturity, DPIA, 3rd Party Risk) • Data Inventory, Mapping and Process flow, RoPA • Data Privacy Framework - Policy, Notice, SoPs • Consent and Notice Management framework • Data Breach and Management • Principal management • Privacy by Design implementation guide • Define Data Retention Guidelines and processes • Technical/Organization measures • Privacy Training/Awareness 	Payment Data Security Training and ANAB Accredited Certification <ul style="list-style-type: none"> • CPISI (2 Day Program) • CPISI (3 Day Program) • CPISI- Advanced (3 Day Program) • CPISI-D (Developers) • CPISI Hybrid (4 Weeks) Certification Program in Cybersecurity for AI – CSPAI <ul style="list-style-type: none"> • CSPAI Forensic Briefing Sessions for Senior Management	AI PRISM <ul style="list-style-type: none"> • AI PRISM LLM Vulnerability Scanner Solution • AI Risk Management and Governance Solution Framework • AI Compliance and Governance Consulting Service Hardware and IoT Security Testing <ul style="list-style-type: none"> • Firmware Security Testing • Hardware/Embedded Security Testing • IoT Network Security Testing • IoT/Embedded Application and Management Layer Security Testing • MPOC/ PCI PTS Quantum Security <ul style="list-style-type: none"> • Quantum Cryptographic Consulting • Quantum Security Risk Assessment • Quantum Security Standards Compliance

SISA is a Global Leader in Cybersecurity Solutions for the Digital Payment Industry

USA | Canada | UK | Bahrain | Saudi Arabia | UAE | Qatar | India | Singapore | Malaysia | Australia

To learn more about SISA's offerings visit us at www.sisainfosec.com or
 Contact your SISA sales representative at contact@sisainfosec.com