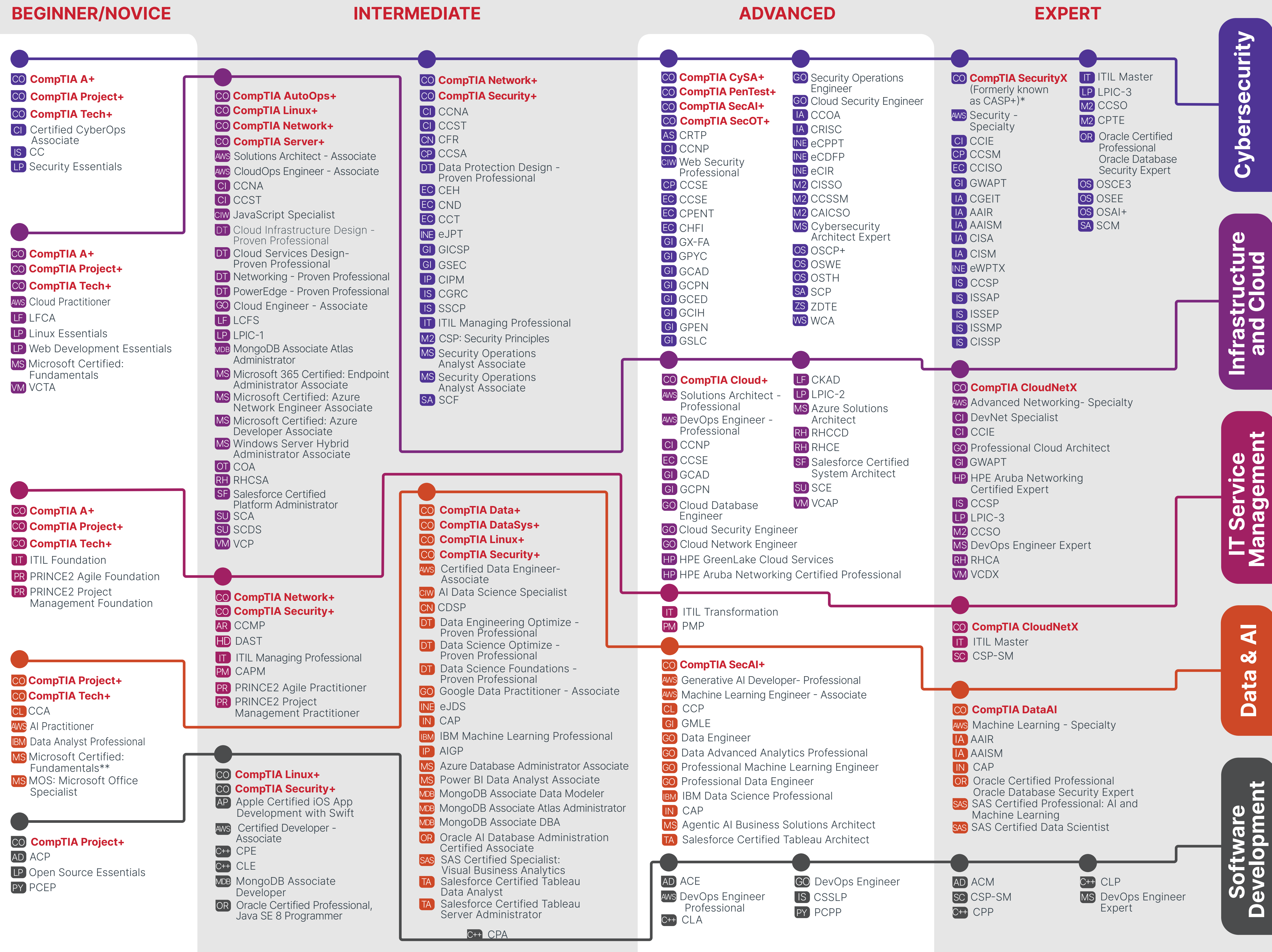


# IT Certification Roadmap

Learn more about CompTIA Certifications by visiting: [comptia.org/en-us/certifications/](https://www.comptia.org/en-us/certifications/)



Certifications validate expertise in your chosen career.



Digital literacy certifications validating end user skills include IC3 and ECDL/ICDL

## CO CompTIA Certifications

**BEGINNER/NOVICE**  
CompTIA A+  
CompTIA Tech+  
CompTIA Project+

**INTERMEDIATE**  
CompTIA AutoOps+  
CompTIA Data+  
CompTIA DataSys+  
CompTIA Linux+  
CompTIA Network+  
CompTIA Security+  
CompTIA Server+

**ADVANCED**  
CompTIA Cloud+  
CompTIA CySA+  
CompTIA PenTest+  
CompTIA SecAI+  
CompTIA SecOT+

**EXPERT**  
CompTIA CloudNetX  
CompTIA DataAI  
CompTIA SecurityX

## AD Adobe

**BEGINNER/NOVICE**  
ACP: Adobe Certified Professional

**ADVANCED**  
ACE: Adobe Certified Expert

**EXPERT**  
ACM: Adobe Certified Master

## AP APPLE

**INTERMEDIATE**  
Apple Certified iOS App Development with Swift

## AS Altered Security

**ADVANCED**  
CRTP: Certified Red Team Professional

## AR Association of Change Management

**INTERMEDIATE**  
CCMP: Certified Change Management Professional

## AWS Amazon Web Services

**BEGINNER/NOVICE**  
AWS AI Practitioner  
AWS Cloud Practitioner

**INTERMEDIATE**  
AWS Certified Solutions Architect - Associate  
AWS CloudOps Engineer - Associate  
AWS Certified Data Engineer - Associate  
AWS Certified Developer - Associate

**ADVANCED**  
AWS Certified Solutions Architect - Professional  
AWS Certified DevOps Engineer- Professional  
Generative AI Developer- Professional  
AWS Certified Machine Learning Engineer - Associate

**EXPERT**  
AWS Certified Security - Specialty  
AWS Certified Advanced Networking- Specialty  
AWS Certified Machine Learning - Specialty

## CI CIW

**INTERMEDIATE**  
CIW AI Data Science Specialist  
CIW JavaScript Specialist

**ADVANCED**  
CIW Web Security Professional

## CI Cisco Systems

**BEGINNER/NOVICE**  
Cisco Certified CyberOps Associate

**INTERMEDIATE**  
CCST: Cisco Certified Support Technician  
CCNA: Cisco Certified Network Associate

**ADVANCED**  
CCNP: Cisco Certified Network Professional

**EXPERT**  
Cisco Certified DevNet Specialist  
CCIE: Cisco Certified Internetwork Expert

## CL CLUDERA

**BEGINNER/NOVICE**  
CCA: Cloudera Certified Associate

**INTERMEDIATE**  
CCP: Cloudera Certified Professional

## C+ C++ Institute

**INTERMEDIATE**  
CPE: C++ Certified Entry-Level Programmer  
CLE: C Certified Entry-Level Programmer

**ADVANCED**  
CLA: C Certified Associate Programmer  
CPA: C++ Certified Associate Programmer

**EXPERT**  
CPP: C++ Certified Professional Programmer  
CLP: C Certified Professional Programmer

## CN Cert Nexus

**INTERMEDIATE**  
CFR: CyberSec First Responder  
CDSP: Certified Data Science Practitioner

## CP CheckPoint

**INTERMEDIATE**  
CCSA: Certified Security Administrator

**ADVANCED**  
CCSE: Certified Security Expert

**EXPERT**  
CCSM: Check Point Certified Security Master

## DT Dell Technologies

**INTERMEDIATE**  
Dell Technologies Data Engineering Optimize - Proven Professional  
Dell Technologies Cloud Infrastructure Design - Proven Professional  
Dell Technologies Cloud Services Design- Proven Professional  
Dell Technologies Networking - Proven Professional  
Dell Technologies Data Protection Design - Proven Professional  
Dell Technologies PowerEdge - Proven Professional  
Dell Technologies Data Science Optimize - Proven Professional  
Dell Technologies Data Science Foundations - Proven Professional

## EC EC Council

**INTERMEDIATE**  
CEH: Certified Ethical Hacker  
CND: Certified Network Defender  
CCT: Certified Cyber Technician

**ADVANCED**  
CCSE: Certified Cloud Security Engineer  
CPENT: Penetration Testing Professional  
CHFI: Computer Hacking Forensic Investigator

**EXPERT**  
CCISO: Certified Chief Information Security Officer

## INE INE

**INTERMEDIATE**  
eJPT: Junior Penetration Tester  
eJDS: Junior Data Scientist

**ADVANCED**  
eCPPT: Certified Professional Penetration Tester  
eCDFP: Certified Digital Forensics Professional  
eCIR: Certified Incident Responder

**EXPERT**  
eWPTX: Web Application Penetration Tester eXtreme

## GI GIAC

**INTERMEDIATE**  
GSEC: GIAC Security Essentials  
GICSP: Global Industrial Cyber Security Professional Certification

**ADVANCED**  
GX-FA: GIAC Experienced Forensics Analyst  
GPYC: GIAC Python Coder  
GCAD: GIAC Cloud Security Architecture and Design  
GCPN: GIAC Cloud Penetration Tester  
GCEd: GIAC Certified Enterprise Defender  
GCIH: GIAC Certified Incident Handler  
GMLE: GIAC Machine Learning Engineer  
GPEN: GIAC Penetration Tester  
GSLC: GIAC Security Leadership

**EXPERT**  
GWAPT: GIAC Web Application Penetration Tester

## GO Google

**INTERMEDIATE**  
Google Cloud Engineer - Associate  
Google Data Practitioner - Associate

**ADVANCED**  
Google Data Engineer  
Google Security Operations Engineer  
Google Cloud Database Engineer  
Google Cloud Security Engineer  
Google Data Advanced Analytics Professional  
Google Cloud Network Engineer  
Google DevOps Engineer  
Google Professional Machine Learning Engineer  
Google Professional Data Engineer

**EXPERT**  
Professional Cloud Architect

## HD HDI Global Certification

**INTERMEDIATE**  
DAST: HDI Desktop Advanced Support Technician

## HP Hewlett-Packard

**ADVANCED**  
HPE GreenLake Cloud Services  
HPE Aruba Networking Certified Professional

**EXPERT**  
HPE Aruba Networking Certified Expert

## IA ISACA

**ADVANCED**  
CCOA: Certified Cybersecurity Operations Analyst  
CRISC: Certified in Risk and Information Systems Control

**EXPERT**  
CGEIT: Certified in the Governance of Enterprise IT  
AAIR: Advanced in AI Risk  
AAISM: Advanced in AI Security Management  
CISA: Certified Information Systems Auditor  
CISM: Certified Information Security Manager

## IP IAPP

**INTERMEDIATE**  
AIGP: AI Governance Professional  
CIPM: Certified Information Privacy Manager

## IBM IBM (Coursera)

**BEGINNER/NOVICE**  
IBM Data Analyst Professional

**INTERMEDIATE**  
IBM Machine Learning Professional

**ADVANCED**  
IBM Data Science Professional

## IN Infirms

**INTERMEDIATE**  
CAP: Certified Analytics Professional - Essentials

**ADVANCED**  
CAP: Certified Analytics Professional- Pro

**EXPERT**  
CAP: Certified Analytics Professional - Expert

## IS ISC2

**BEGINNER/NOVICE**  
CC: Certified in Cybersecurity

**INTERMEDIATE**  
CGRC – Governance, Risk and Compliance Certification  
SSCP: Systems Security Certified Practitioner

**ADVANCED**  
CSSLP: Certified Secure Software Lifecycle Professional

**EXPERT**  
CCSP: Certified Cloud Security Professional  
ISSAP: Information Systems Security Architecture Professional  
ISSEP: Security Engineer Professional  
ISSMP: Security Management Professional  
CISSP: Certified Information Systems Security Professional

## IT ITIL

**BEGINNER/NOVICE**  
ITIL Foundation

**INTERMEDIATE**  
ITIL Managing Professional

**ADVANCED**  
ITIL Transformation

**EXPERT**  
ITIL Master

## LF The Linux Foundation

**BEGINNER/NOVICE**  
LFCA: Linux Foundation Certified IT Associate

**INTERMEDIATE**  
LCFS: Linux Foundation Certified SysAdmin

**ADVANCED**  
CKAD: Certified Kubernetes Application Developer

## LP Linux Professional Institute

**BEGINNER/NOVICE**  
Security Essentials  
Linux Essentials  
Web Development Essentials  
Open Source Essentials

**INTERMEDIATE**  
LPIC-1

**ADVANCED**  
LPIC-2

**EXPERT**  
LPIC-3

## M2 Mile2

**INTERMEDIATE**  
CSP: Security Principles

**ADVANCED**  
CISSO: Certified Information Systems Security Officer  
CCSSM: Cybersecurity Systems Manager  
CAICSO: AI Cybersecurity Officer

**EXPERT**  
CCSO: Cloud Security Officer  
CPTe: Certified Penetration Testing Engineer

## MS MS Microsoft

**BEGINNER/NOVICE**  
Microsoft Certified: Fundamentals  
MOS: Microsoft Office Specialist

**INTERMEDIATE**  
Microsoft 365 Certified: Endpoint Administrator Associate  
Microsoft Certified: Azure Network Engineer Associate  
Microsoft Certified: Security Operations Analyst Associate  
Microsoft Certified: Azure Database Administrator Associate  
Microsoft Certified: Power BI Data Analyst Associate  
Microsoft Certified: Azure Developer Associate  
Microsoft Certified: Windows Server Hybrid Administrator Associate

**ADVANCED**  
Microsoft Certified: Azure Solutions Architect  
Microsoft Certified: Agentic AI Business Solutions Architect  
Microsoft Certified: Cybersecurity Architect Expert

**EXPERT**  
Microsoft Certified: DevOps Engineer Expert

## MDB MongoDB

**INTERMEDIATE**  
MongoDB Associate Developer  
MongoDB Associate Data Modeler  
MongoDB Associate Atlas Administrator  
MongoDB Associate DBA (Database Administrator)

## OR Oracle

**INTERMEDIATE**  
Oracle Certified Professional, Java SE 8 Programmer  
Oracle AI Database Administration Certified Associate

**EXPERT**  
Oracle Certified Professional Oracle Database Security Expert

## OS OffSec

**ADVANCED**  
OSCP+: OffSec Certified Professional  
OSWE: Offensive Security Web Expert  
OSTH: Foundational Threat Hunting

**EXPERT**  
OSCE3: OffSec Certified Expert3  
OSEE: Advanced Windows Exploitation  
OSAI+: Advanced AI Red Teaming

## OT OpenStack

**INTERMEDIATE**  
COA: Certified Openstack Administrator

## PM PMI

**INTERMEDIATE**  
CAPM: Certified Associate in Project Management

**ADVANCED**  
PMP: Project Management Professional

## PR PRINCE2

**BEGINNER/NOVICE**  
PRINCE2 Agile Foundation  
PRINCE2 Project Management Foundation

**INTERMEDIATE**  
PRINCE2 Agile Practitioner  
PRINCE2 Project Management Practitioner

## PY Python Institute

**BEGINNER/NOVICE**  
PCEP: Certified Entry-Level Python Programmer

**INTERMEDIATE**  
PCAP: Certified Associate Python Programmer

**ADVANCED**  
PCPP: Certified Professional Python Programmer

## RH Red Hat

**INTERMEDIATE**  
RHCSA: Red Hat Certified System Administrator

**ADVANCED**  
RHCCD: Red Hat Certified Cloud-native Developer  
RHCE: Red Hat Certified Engineer

**EXPERT**  
RHCA: Red Hat Certified Architect

## SA SABSA

**INTERMEDIATE**  
SCF: SABSA Chartered Foundation

**ADVANCED**  
SCP: SABSA Chartered Practitioner

**EXPERT**  
SCM: SABSA Chartered Master

## SF Salesforce

**INTERMEDIATE**  
Salesforce Certified Platform Administrator

**ADVANCED**  
Salesforce Certified System Architect

## SAS SAS

**INTERMEDIATE**  
Certified Specialist Visual Business Analytics

**EXPERT**  
SAS Certified Professional: AI and Machine Learning  
SAS Certified Data Scientist

## SC Scrum Alliance

**EXPERT**  
CSP-SM: Certified Scrum Professional ScrumMaster

## SU SUSE

**INTERMEDIATE**  
SCA: SUSE Certified Administrator  
SCDS: SUSE Certified Deployment Specialist

**ADVANCED**  
SCE: SUSE Certified Engineer

## TA Tableau

**INTERMEDIATE**  
Salesforce Certified Tableau Data Analyst

Salesforce Certified Tableau Server Administrator

**ADVANCED**  
Salesforce Certified Tableau Architect

## VM VMware

**BEGINNER/NOVICE**  
VCTA: VMware Certified Technical Associate

**INTERMEDIATE**  
VCP: VMware Certified Professional

**ADVANCED**  
VCAP: VMware Certified Advanced Professional

**EXPERT**  
VCDX: VMware Certified Design Expert

## WS Wireshark

**ADVANCED**  
WCA: Wireshark Certified Analyst

## ZS Zscaler

**ADVANCED**  
ZDTE: Zscaler Digital Transformation Engineer