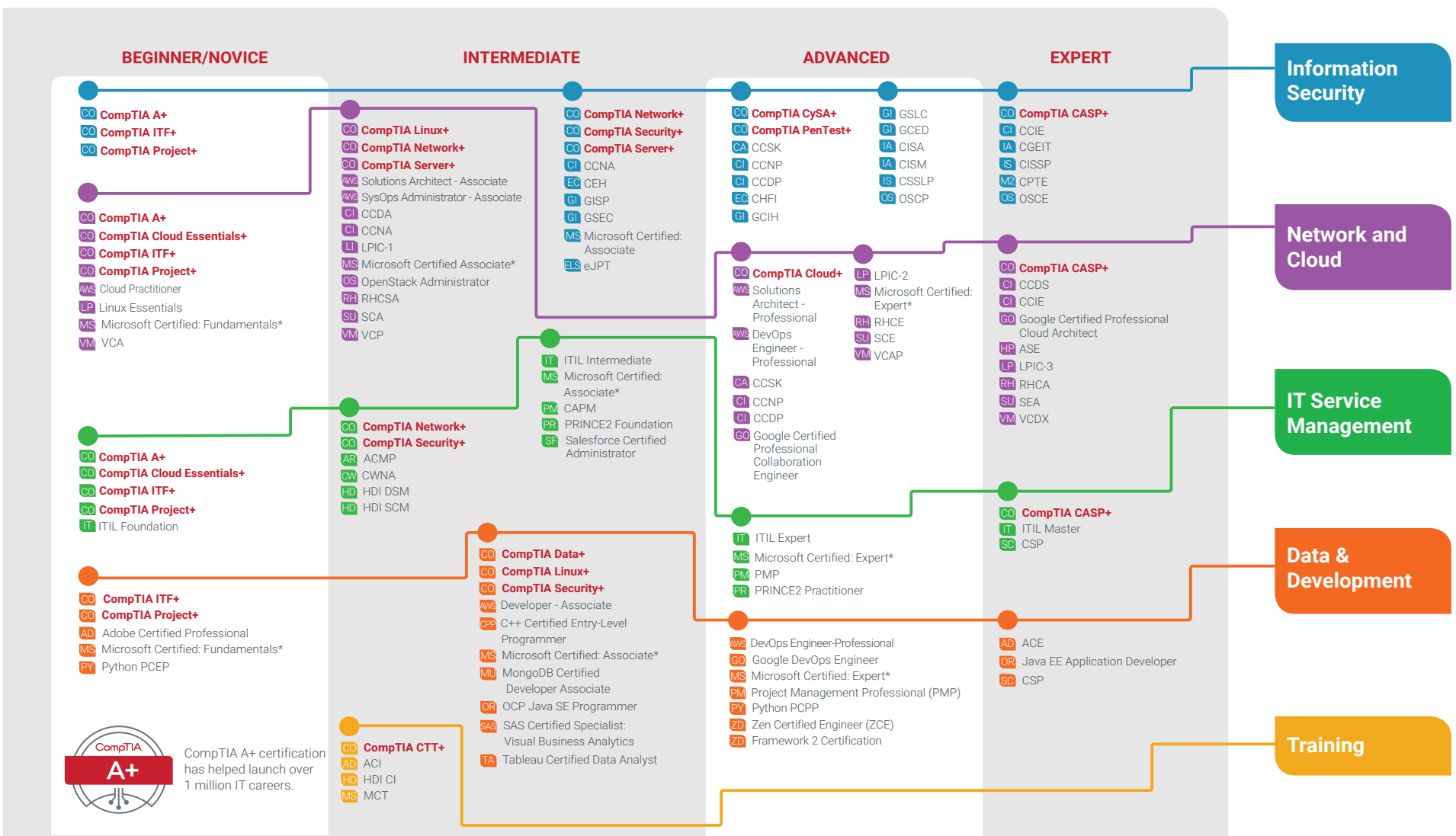# IT Certification Roadmap

Explore the possibilities with the CompTIA Interactive IT Roadmap at:
CompTIA.org/CertsRoadmap

CompTIA.

Certifications validate expertise in your chosen career.

	BEGINNER/NOVICE	INTERMEDIATE	ADVANCED	EXPERT	

Information Security

BEGINNER/NOVICE
- CO CompTIA A+
- CO CompTIA ITF+
- CO CompTIA Project+

INTERMEDIATE
- CO CompTIA Network+
- CO CompTIA Security+
- CO CompTIA Server+
- CI CCNA
- EC CEH
- GI GISP
- GI GSEC
- MS Microsoft Certified: Associate
- ELS eJPT

ADVANCED
- CO CompTIA CySA+
- CO CompTIA PenTest+
- CA CCSK
- CI CCNP
- CI CCDP
- EC CHFI
- GI GCIH
- GI GSLC
- GI GCED
- IA CISA
- IA CISM
- IS CSSLP
- OS OSCP

EXPERT
- CO CompTIA CASP+
- CI CCIE
- IA CGEIT
- IS CISSP
- M2 CPTE
- OS OSCE

Network and Cloud

BEGINNER/NOVICE
- CO CompTIA A+
- CO CompTIA Cloud Essentials+
- CO CompTIA ITF+
- CO CompTIA Project+
- AWS Cloud Practitioner
- LP Linux Essentials
- MS Microsoft Certified: Fundamentals*
- VM VCA

INTERMEDIATE
- CO CompTIA Linux+
- CO CompTIA Network+
- CO CompTIA Server+
- AWS Solutions Architect - Associate
- AWS SysOps Administrator - Associate
- CI CCDA
- CI CCNA
- LI LPIC-1
- MS Microsoft Certified Associate*
- OS OpenStack Administrator
- RH RHCSA
- SU SCA
- VM VCP

ADVANCED
- CO CompTIA Cloud+
- AWS Solutions Architect - Professional
- AWS DevOps Engineer - Professional
- CA CCSK
- CI CCNP
- CI CCDP
- GO Google Certified Professional Collaboration Engineer
- LP LPIC-2
- MS Microsoft Certified: Expert*
- RH RHCE
- SU SCE
- VM VCAP

EXPERT
- CO CompTIA CASP+
- CI CCDS
- CI CCIE
- GO Google Certified Professional Cloud Architect
- HP ASE
- LP LPIC-3
- RH RHCA
- SU SEA
- VM VCDX

IT Service Management

BEGINNER/NOVICE
- CO CompTIA A+
- CO CompTIA Cloud Essentials+
- CO CompTIA ITF+
- CO CompTIA Project+
- IT ITIL Foundation

INTERMEDIATE
- CO CompTIA Network+
- CO CompTIA Security+
- AR ACMP
- CW CWNA
- HD HDI DSM
- HD HDI SCM
- IT ITIL Intermediate
- MS Microsoft Certified: Associate*
- PM CAPM
- PR PRINCE2 Foundation
- SF Salesforce Certified Administrator

ADVANCED
- IT ITIL Expert
- MS Microsoft Certified: Expert*
- PM PMP
- PR PRINCE2 Practitioner

EXPERT
- CO CompTIA CASP+
- IT ITIL Master
- SC CSP

Data & Development

BEGINNER/NOVICE
- CO CompTIA ITF+
- CO CompTIA Project+
- AD Adobe Certified Professional
- MS Microsoft Certified: Fundamentals*
- PY Python PCEP

INTERMEDIATE
- CO CompTIA Data+
- CO CompTIA Linux+
- CO CompTIA Security+
- AWS Developer - Associate
- CPP C++ Certified Entry-Level Programmer
- MS Microsoft Certified: Associate*
- MU MongoDB Certified Developer Associate
- OR OCP Java SE Programmer
- SAS SAS Certified Specialist: Visual Business Analytics
- TA Tableau Certified Data Analyst

ADVANCED
- AWS DevOps Engineer-Professional
- GO Google DevOps Engineer
- MS Microsoft Certified: Expert*
- PM Project Management Professional (PMP)
- PY Python PCPP
- ZD Zen Certified Engineer (ZCE)
- ZD Framework 2 Certification

EXPERT
- AD ACE
- OR Java EE Application Developer
- SC CSP

Training

BEGINNER/NOVICE

A+
CompTIA A+ certification has helped launch over 1 million IT careers.

INTERMEDIATE
- CO CompTIA CTT+
- AD ACI
- HD HDI CI
- MS MCT

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

Updated 4/2022

*Microsoft provides three certification paths. Please visit Microsoft's webpage for a full list of their offerings: https://bit.ly/3tJYm8Z

CO CompTIA Certifications

BEGINNER/NOVICE
CompTIA A+
CompTIA Cloud Essentials+
CompTIA ITF+
CompTIA Project+

INTERMEDIATE
CompTIA CTT+: Certified Technical Trainer
CompTIA Data+
CompTIA Linux+
CompTIA Network+
CompTIA Security+
CompTIA Server+

ADVANCED
CompTIA Cloud+
CompTIA CySA+: Cybersecurity Analyst
CompTIA PenTest+

EXPERT
CompTIA CASP+: CompTIA Advanced Security Practitioner

AD Adobe

BEGINNER/NOVICE
ACP: Adobe Certified Professional
INTERMEDIATE
ACI: Adobe Certified Instructor
EXPERT
ACE: Adobe Certified Expert

AR Aruba

INTERMEDIATE
ACMP: Aruba Certified Mobility Professional

AWS Amazon Web Services

BEGINNER/NOVICE
AWS: Cloud Practitioner
INTERMEDIATE
AWS: Certified Solutions Architect - Associate
AWS: Certified SysOps Administrator - Associate
AWS: Certified Developer - Associate
ADVANCED
AWS: Certified Solutions Architect - Professional
AWS: Certified DevOps Engineer- Professional

CA Cloud Security Alliance

ADVANCED
CCSK: Certificate of Cloud Security Knowledge

CI Cisco Systems

INTERMEDIATE
CCDA: Cisco Certified DevNet Associate
CCNA: Cisco Certified Network Associate
ADVANCED
CCDP: Cisco Certified DevNet Professional
CCNP: Cisco Certified Network Professional

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

CPP CPP Institute

INTERMEDIATE
CPP: C++ Certified Entry-Level Programmer

CW CWNP

INTERMEDIATE
CWNA: Certified Wireless Network Administrator

EC EC Council

INTERMEDIATE
CEH: Certified Ethical Hacker
ADVANCED
CHFI: Computer Hacking Forensic Investigator

ELS eLearnSecurity

INTERMEDIATE
eJPT: eLearnSecurity Junior Penetration Tester

GI GIAC

INTERMEDIATE
GISP: GIAC Information Security Professional
GSEC: GIAC Security Essentials
ADVANCED
GCED: Certified Enterprise Defender
GCIH: GIAC Certified Incident Handler
GSLC: Security Leadership

GO Google

ADVANCED
GO: Google Certified Professional Collaboration Engineer
GO: Google DevOps Engineer
EXPERT
GO: Google Certified Professional Cloud Architect

HD HDI Global Certification

INTERMEDIATE
HDI CI: HDI Certified Instructor
HDI DSM: HDI Desktop Support Manager
HDI SCM: HDI Support Center Manager

HP Hewlett-Packard

EXPERT
ASE: Accredited Systems Engineer

IA ISACA

ADVANCED
CISA: Certified Information Systems Auditor
CISM: Certified Information Security Manager

EXPERT
CGEIT: Certified in the Governance of Enterprise IT

IS (ISC)²

ADVANCED
CSSLP: Certified Secure Software Lifecycle Professional
EXPERT
CISSP: Certified Information Systems Security Professional

IT ITIL

BEGINNER/NOVICE
ITIL Foundations
INTERMEDIATE
ITIL Intermediate
ADVANCED
ITIL Expert
EXPERT
ITIL Master

LP Linux Professional Institute

BEGINNER/NOVICE
Linux Essentials
INTERMEDIATE
LPIC-1 Linux Administrator
ADVANCED
LPIC-2 Linux Engineer
EXPERT
LPIC-3 Linux Professional

M2 Mile2

EXPERT
CPTE: Certified Penetration Testing Engineer

MS MS Microsoft

BEGINNER/NOVICE:
Microsoft Certified: Fundamentals
INTERMEDIATE:
Microsoft Certified: Associate
ADVANCED:
Microsoft Certified: Expert

MU MongoDB University

INTERMEDIATE
MongoDB Certified Developer Associate

PR PRINCE2

INTERMEDIATE
PRINCE2 Foundation
ADVANCED
PRINCE2 Practitioner

OR Oracle

INTERMEDIATE
OCP: Java SE Programmer
EXPERT
OCPJAD: Java EE Application Developer

OS Offensive Security

ADVANCED
OSCP: Offensive Security Certified Professional
EXPERT
OSCE: Offensive Sercurity Certified Expert

PM PMI

INTERMEDIATE
CAPM: PMI Certified Associate in Project Management
ADVANCED
PMP: PMI Project Professional

PY Python Institute

BEGINNER/NOVICE
Python PCEP
ADVANCED
Python PCPP

RH Red Hat

INTERMEDIATE
RHCSA: Red Hat Certified System Administrator
ADVANCED
RHCE: Red Hat Certified Engineer
EXPERT
RHCA: Red Hat Certified Architect

SAS SAS

INTERMEDIATE
SAS Certified Specialist: Visual Business Analytics

SC Scrum Alliance

EXPERT
CSP: Certified Scrum Professional

SF Salesforce

INTERMEDIATE
Salesforce Certified Administrator

SU SUSE

INTERMEDIATE
SCA: SUSE Certified Administrator
ADVANCED
SCE: SUSE Certified Engineer
EXPERT
SEA: SUSE Enterprise Architect

TA Tableau

INTERMEDIATE
Tableau Certified Data Analyst

VM VMware

BEGINNER/NOVICE
VCA: VMware Certified Associate
INTERMEDIATE
VCP: VMware Certified Professional
ADVANCED
VCAP: VMware Certified Advanced Professional

EXPERT
VCDX: VMware Certified Design Expert

ZD Zend

ADVANCED
Zen Certified Engineer (ZCE)
Framework 2 Certification

Certification Criteria
CompTIA reviews developments in the IT certification landscape and adjusts the IT Certifications Roadmap as necessary.

To be included in the IT Certifications Roadmap, a certification must meet at least 60% (3 out of 5) of the following criteria.

- **Acceptable Development Standards:** Developed based on processes established by a standards body. (For example: ISO/ANSI.)

- **Training Industry Recognition:** Third-party training products are available to prepare individuals for the certification. (For example: books, ebooks, videos, bootcamps, practice tests)

- **IT Industry Recognition – Media:** Cited in industry publications either online or in print. (For example: SC Magazine, PC World, and surveys from respected journals)

- **IT Industry Recognition – Authority:** Cited by Subject Matter Experts in the IT industry. (For example: SMEs that work regularly with CompTIA, recognition from other certification bodies)

- **Employer Recognition:** Cited in jobs ads and postings for positions in targeted job roles. Data should be available from an objective, third party organization (e.g., Burning Glass or Indeed.com).

CompTIA®