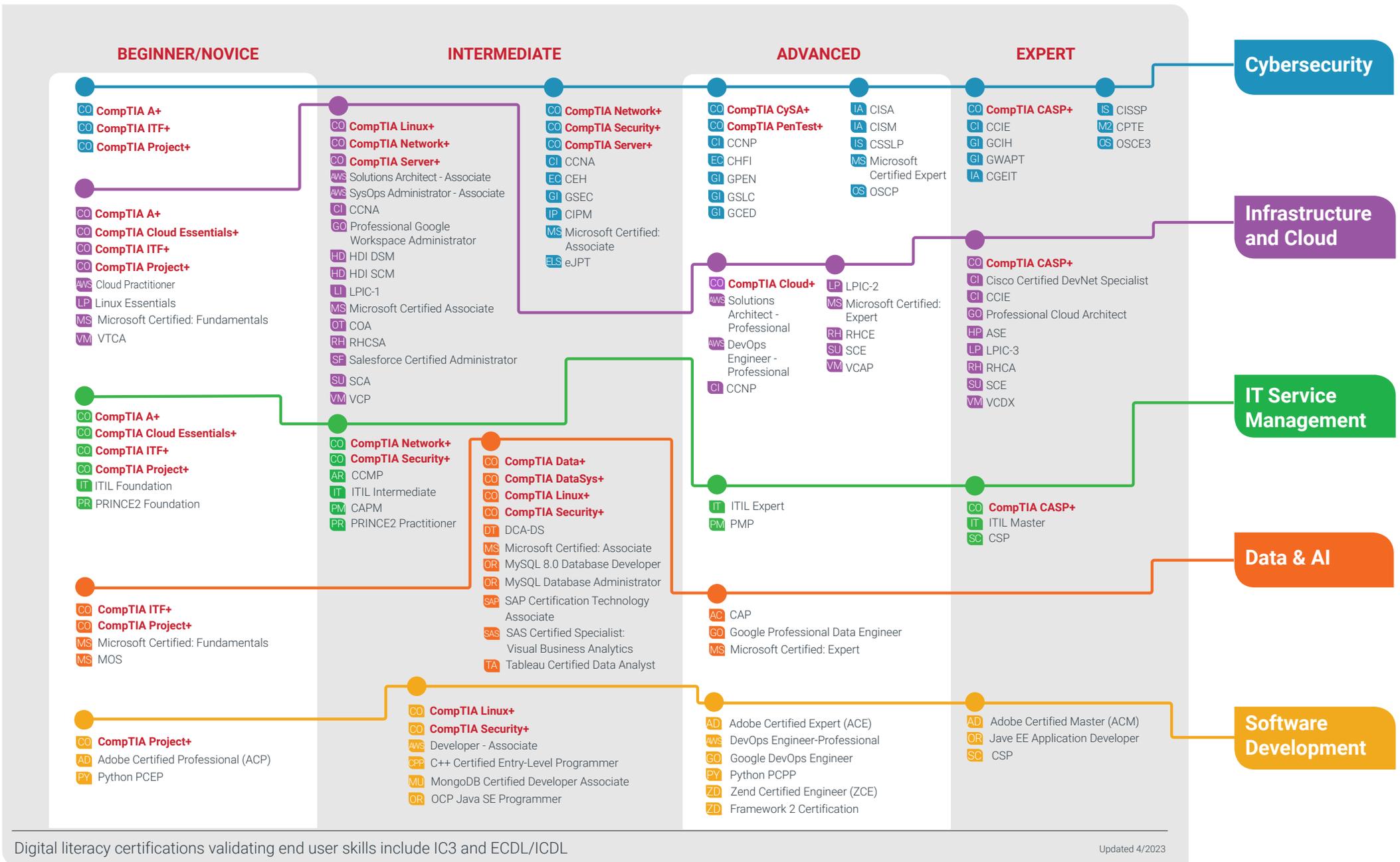


# IT Certification Roadmap

Explore the possibilities with the CompTIA Interactive IT Roadmap at:  
[CompTIA.org/CertsRoadmap](https://www.comptia.org/CertsRoadmap)



Certifications validate expertise in your chosen career.



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

Updated 4/2023

\*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 Data+  
CompTIA DataSys+  
CompTIA Linux+  
CompTIA Network+  
CompTIA Security+  
CompTIA Server+

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

*EXPERT*  
CompTIA CASP+: CompTIA Advanced Security Practitioner

## AC Analytics Certification Board

*ADVANCED*  
ACB: Certified Analytics Professional (CAP)

## AD Adobe

*BEGINNER/NOVICE*  
ACP: Adobe Certified Professional  
*ADVANCED*  
ACE: Adobe Certified Expert  
*EXPERT*  
ACM: Adobe Certified Master

## AR Association of Change Management

*INTERMEDIATE*  
CCMP: Certified Change Management 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

## CI Cisco Systems

*INTERMEDIATE*  
CCNA: Cisco Certified Network Associate

*ADVANCED*  
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

## DT Dell Technologies

*INTERMEDIATE*  
Dell Technologies Data Science Associate

## 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*  
GSEC: GIAC Security Essentials  
*ADVANCED*  
GCED: Certified Enterprise Defender  
GPEN: GIAC Penetration Tester  
GSLC: Security Leadership  
GWAPT: GIAC Web Application Penetration Tester  
*EXPERT*  
GCIH: GIAC Certified Incident Handler

## GO Google

*INTERMEDIATE*  
GO: Professional Google Workspace Administrator  
*ADVANCED*  
GO: Google DevOps Engineer  
GO: Google Professional Data Engineer  
*EXPERT*  
GO: Professional Cloud Architect

## HD HDI Global Certification

*INTERMEDIATE*  
HDI DSM: HDI Desktop Support Manager  
HDI SCM: HDI Support Center Manager

## HP Hewlett-Packard

*EXPERT*  
ASE: Accredited Systems Engineer

## IP IAPP

*INTERMEDIATE*  
CIPM: Certified Information Privacy Manager

## IA ISACA

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

*EXPERT*  
CGEIT: Certified in the Governance of Enterprise IT

## IS (ISC)<sup>2</sup>

*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

*ADVANCED*  
LPIC-2

*EXPERT*  
LPIC-3

## M2 Mile2

*EXPERT*  
CPTe: Certified Penetration Testing Engineer

## MS MS Microsoft

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

*INTERMEDIATE*  
Microsoft Certified: Associate

*ADVANCED*  
Microsoft Certified: Expert

## MU MongoDB University

*INTERMEDIATE*  
MongoDB Certified Developer Associate

## OR Oracle

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

## OS Offensive Security

*ADVANCED*  
OSCP: Offensive Security Certified Professional

*EXPERT*  
OSCE3: Offensive Security Certified Expert 3

## OT OpenStack

*INTERMEDIATE*  
COA: Certified OpenStack Administrator

## PM PMI

*INTERMEDIATE*  
CAPM: PMI Certified Associate in Project Management

*ADVANCED*  
PMP: PMI Project Professional

## PR PRINCE2

*BEGINNER/NOVICE*  
PRINCE2 Foundation  
*INTERMEDIATE*  
PRINCE2 Practitioner

## 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*  
SCE: SUSE Certified Engineer

## TA Tableau

*INTERMEDIATE*  
Tableau Certified Data Analyst

## 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

## ZD Zend

*ADVANCED*  
Zend 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).