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# **Who is IT professional?**

IT professionals are the people who build, test, install, repair, and maintain hardware and software within organizations. Some organizations will have an in-house IT team, whereas smaller-scale businesses may hire freelance IT professionals for specific tasks. (uopeople, n.d.)

# **What are IT certificates?**

IT certifications are among the most effective ways for IT professionals to accelerate their careers. These certifications give professionals at all levels of experience the opportunity to develop deep knowledge of a particular area of IT and demonstrate their skills and expertise. Gaining a certification can help professionals build their skill set and achieve their ambitions, whether their goal is a promotion, a lateral move within their organization, or to strike out on a new career path. (oracle, n.d.)

# **Importance of IT certifications:**

Certifications are important because they’re a straightforward way of verifying your competency in specific areas of IT. It’s one thing to say that you’re capable of using an emerging technology; it’s another for a verified institution to validate your capabilities with proof that you’ve taken a multi hour course and passed an exam testing your skills. When IT professionals add IT certifications to their resumes, they have verified proof of their skills and accomplishments. In a highly competitive field, the right IT certification can help give you a marked advantage over other job seekers. (oracle, n.d.)

# **Types of IT certificates for IT professionals:**

There is long list for IT certifications but few of them are mentioned below:

* Cisco Certified Network Associate (CCNA)
* Certified Information Systems Security Professional (CISSP)
* Certified Ethical Hacker (CEH)
* Microsoft Certified Azure Administrator
* Microsoft Certified Azure Developer
* Project Management Professional (PMP)
* AWS Certified Solutions Architect
* ITIL Foundation
* Certified ScrumMaster (CSM)
* Certified Information Systems Auditor (CISA)
* VMware Certified Professional (VCP)
* Certified Information Technology Professional (CITP)

# **Platforms offering IT certificates:**

* Cisco
* Microsoft
* Amazon Web Services (AWS)
* Google Cloud
* EC-Council
* ISACA
* (ISC)²
* VMware
* Red Hat
* Oracle
* Project Management Institute (PMI)
* ITIL (Axelos)
* Adobe
* IBM
* Coursera
* Udacity
* FreeCodeCamp

# **IT certifications for IT Professionals:**

* Cisco Certified Network Associate (CCNA)
* Certified Information Systems Security Professional (CISSP)
* Certified Ethical Hacker (CEH)
* Microsoft Certified Azure Administrator
* Microsoft Certified Azure Developer
* Project Management Professional (PMP)
* AWS Certified Solutions Architect
* ITIL Foundation
* Certified ScrumMaster (CSM)
* Certified Information Systems Auditor (CISA)
* VMware Certified Professional (VCP)
* Certified Information Technology Professional (CITP)

# **Platforms offering IT certifications for IT Professionals:**

* CompTIA
* Cisco
* Microsoft
* Amazon Web Services (AWS)
* Google Cloud
* EC-Council
* ISACA
* (ISC)²
* VMware
* Red Hat
* Oracle
* Project Management Institute (PMI)
* ITIL (Axelos)
* Scrum Alliance
* Citrix
* Juniper Networks
* Palo Alto Networks
* Adobe
* Salesforce
* IBM
* Coursera
* Udacity
* FreeCodeCamp

# **Types of IT certificates for IT professionals:**

There are various platforms that are offering IT certifications for the IT professionals. And there are various versions of the course like some are paid some are free and some are free in audit. Here is a long list of the IT certifications below:

## **Coursera**

* 1. ***Description***

Coursera is a global online learning platform that offers anyone, anywhere, access to online courses and degrees from leading universities and companies. (coursera, n.d.)

* 1. ***Courses***

with more than 5,800 courses, Professional Certificates, and degrees from world-class universities and companies.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Machine Learning | Free or paid | High | 275+ |
| Python Programming | Free | High | 2,971,362 |
| Financial Markets | free on audit | Moderate | 1,704,769 |
| Web Development | free on audit | Moderate | 229,914 |
| Data Science | free on audit | High | 171,257 |

## **edX**

* 1. ***Description***

edX is a mission-driven, massive open online course (MOOC) provider. We partner with the world's leading universities and organizations to offer high-quality online courses to learners across the world. (edX, n.d.)

* 1. ***Course***

EdX is an online learning platform that offers more than 3,500 courses from top universities and organizations worldwide.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Introduction to CS | Paid | Moderate | 5,306,886 |
| Introduction to DS | Paid | High | Archived |
| Artificial Intelligence | Free | High | 143,546 |
| Project Management | Paid | High | 494,682 |
| Microsoft's Analyzing | Free | High | 135,995 |

## **Udacity**

* 1. ***Description***

Udacity is a global, online, lifelong learning platform connecting education to jobs. Udacity works with industry leaders to create project-based online learning programs. These unique collaborations ensure that students learn the technology skills that employers value most. (udacity, n.d.)

* 1. ***Courses***

Udacity has around 200 courses that are completely free (but do not offer a certificate). Udacity's Nanodegrees (micro-credentials exclusive to Udacity) are completely paid. These Nanodegrees are generally paid with a monthly subscription.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Data Analyst | Paid | High | - |
| Machine Learning | Paid | High | 160,000+ |
| Front-End | Paid | Moderate | - |
| Android Developer | Paid | Moderate | 3.8 million |
| Programming | Free | High | 160,000+ |

## **Pluralsight**

* 1. ***Description***

At Pluralsight, we're advancing the world's tech workforce, and that starts with making your teams more proficient, your work more efficient and effective—and giving you more to celebrate. (pluralsight, n.d.)

* 1. ***Courses***

Access to full library of 7,000+ courses, including advanced content, niche topics, and recordings of past tech conferences. Hands-on content and coding projects. Certification exam prep for industry-leading certifications. Coding challenges.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| JS basics | Paid | Moderate | - |
| Python basics | Paid | High | - |
| Machine Learning | Paid | High | - |
| Data Science | Paid | High | - |
| Cybersecurity basics | Paid | High | - |

## **LinkedIn Learning**

* 1. ***Description***

LinkedIn Learning is an online educational platform that helps you discover and develop business, technology-related, and creative skills through expert-led course videos. With more than 5,000 courses and personalized recommendations, you can discover, complete, and track courses related to your field and interests. (linkedin, n.d.)

* 1. ***Courses***

LinkedIn Learning provides access to more than 13,000 high-quality on-demand courses. And you’ll get personalized course

recommendations based on unique, data-driven insights from millions of professionals on the worldwide LinkedIn network.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Excel Essential Training | Paid | Moderate | 73,578 |
| Web Development | Paid | Moderate | 458828 |
| Project Management | Paid | Moderate | 911373 |
| Python Essential | Paid | High | 7,766 |
| Digital Marketing | Paid | Normal | 149885 |

## **Treehouse**

* 1. ***Description***

Treehouse is an online school that teaches technology. Treehouse has courses on hundreds of topics including how to build a website, how to build a web app, how to build a mobile app, and how to start a business. (Treehouse, n.d.)

* 1. ***Courses***

Treehouse offers 300+ courses on 23+ subject areas. Whether you are at a beginners’, intermediate, or advanced level, the company claims to deliver excellent content in an easy way to its 50,000+ learners enrolled in different classes.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| HTML and CSS | Paid | Normal | - |
| JavaScript | Paid | High | - |
| Python | Paid | High | - |
| Ruby | Paid | Moderate | - |
| Java | Paid | High | - |

## **Cisco**

* 1. ***Description***

Cisco Systems, Inc. is a leading networking company best known as a manufacturer and vendor of networking equipment. The company also provides software and offers related services. (techtarget, n.d.)

* 1. ***Courses***

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Cisco Certified CyberOps Professional | Paid/free | High | Archived |
| Cisco Certified Design Associate | Paid | High | Archived |
| Cisco Certified CyberOps Associate | Paid | Moderate | Archived |
| Cisco Certified DevNet Associate | Free | Moderate | Archived |
| Cisco Certified Internetwork Expert | Paid | High | Archived |

## **Code academy**

* 1. ***Description***

Code Academy is an American online interactive platform that offers free coding classes in 12 different programming languages including Python, Java, Go, JavaScript, Ruby, SQL, C++, C#, and Swift, as well as markup languages HTML and CSS. (codecademy, n.d.)

* 1. ***Courses***

Code academy provides access to more than 300+ high-quality on-demand courses. And you’ll get personalized course

recommendations based on unique, data-driven insights from millions of professionals on the worldwide network.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| HTML and CSS | Paid | High | 901,058 |
| JavaScript | Paid | High | 2,642,074 |
| Data Science | Paid | Moderate | 20,625 |
| SQL | Paid | Moderate | 1,148,144 |
| Java | Paid | High | 1,546,010 |

## **FreeCodeCamp**

* 1. ***Description***

FreeCodeCamp (also referred to as Free Code Camp) is a non-profit organization that consists of an interactive learning web platform, an online community forum, chat rooms, online publications and local organizations that intend to make learning software development accessible to anyone. (freecodecamp, n.d.)

* 1. ***Courses***

we bring together all the free certificates and badges that are scattered across the web. In total, the platforms below offer over 1000 free certificate courses for learning software development.

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Quality Assurance | Free | High | - |
| APIs and Microservices | Free | High | - |
| Data Visualization | Free | Moderate | - |
| Front End Libraries | Free | Moderate | - |
| Algorithms and Data Structures | Free | High | - |

## **Programiz**

* 1. ***Description***

Announcing Programiz PRO: An Interactive Learning Platform

Programiz PRO is not just another programming course. Instead, it is a most interactive learning platform where you can learn by writing code, solving challenges, and building projects in real-time. (programiz, n.d.)

* 1. ***Courses***

|  |  |  |  |
| --- | --- | --- | --- |
| Course name | Type | Demand | Enrolled students |
| Python Programming | Free | High | - |
| Java Programming | Free | High | - |
| C Programming | Free | High | - |
| Data Structures and Algorithms | Free | High | - |
| SQL | Free | High | - |

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