

Considering a career in Informational Technology?

Information technology brings you the information and applications, such as word processing, spreadsheet, and presentation software. IT specialists create products and set up and maintain systems. Their work varies widely: They upgrade computer software; network computers, get computers up and running again after it crashes; set up and maintain the servers on which internal applications run; create and customize software products used by an organization; build websites; and build and maintain the databases that are relied on to gather information to serve customers.

IT professionals focus on improving the usability and efficiency of technological systems and processes.

Qualifications to Prepare for a Career in Information Technology

- ⇒ Analytical, organizational, leadership, communication and decision-making skills.
- ⇒ Experience with Project management software, customer management software, server operating systems, Web platform development software and language platforms like Microsoft SQL, and C++ .
- ⇒ Additional Requirements: Long and irregular hours may be required to solve unexpected computer issues.

IT professionals are at the forefront of making businesses faster and more efficient. Below is a list of potential duties that an IT professional may execute:

- ⇒ Planning and coordinating all the computer-related processes.
- ⇒ Design and develop the organization's data communication networks.
- ⇒ Research, design and test computer systems and other physical components of a network.
- ⇒ Responsible for setting up local and wide area networks, and intranets.
- ⇒ Negotiations with technology vendors to acquire the most appropriate level of service.
- ⇒ Designing and developing new systems or upgrade the existing network by selecting and installing hardware and software.
- ⇒ Development of local and wide-area networks, system segments, intranets and other data or tele communications systems.
- ⇒ Maintenance of network security, and ensuring that each part of the system is functioning properly and collect data to evaluate the network's performance.

Recommended Education and Skills

Here are some generally accepted educational achievements for a candidate seeking employment in the Information Technology field:

- ⇒ A four-year bachelor's degree, preferably in computer or information science, or another related field.
- ⇒ Classwork that addresses computer programming, networking, systems design, circuit analysis, microprocessor design, image analysis and advanced computer architecture.
- ⇒ A graduate-level in Information Technology or a related field for candidates interested in higher management position.

Trend

The current trend in Information Technology is the more education candidates possess, the better their chances of obtaining a position and advancing in this career path are. Often, organizations provide career advancement opportunities such as training and certification programs that employees are encouraged to take advantage of in order to increase their skills and marketability. Younger candidates are encouraged to pursue internships that will promote business experience and provide growth opportunities.