

Course Overview: Encompass entry level, technical, and professional careers related to the design, development and support of hardware, software, multimedia, and systems integration services.

# **Computer Support Specialist**

Career Goal (O\*NET Code): (15-1041) - Computer support specialists provide help and advice to people and organizations using computer software or equipment. Some, called technical support specialists, support information technology (IT) employees within their organization. Others, called help-desk technicians, assist non-IT users who are having computer problems.

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#### EXTENDED LEARNING EXPERIENCES SUGGESTED COURSEWORK (Local districts may list high school credit courses here) Curricular Experiences\*\*\*: Extracurricular Experiences: 8th HS Courses: Academic Decathlon **Business Professionals of America** Computer Tutor Future Business Leaders of America **Language Immersion Programs** SkillsUSA English I World Geography Fine Arts School Newspaper **Technology Student Association** Courses\*: Algebra I or Geometry Foreign Language I **Student Council** Physical Education or Athletics Biology **UIL Academic Competitions** Career-Related Yearbook Principles of Information Technology Electives: English II World History Elective Career Learning Experiences: Service Learning Experiences: Geometry or Algebra II Foreign Language II Courses: School 10th Apprenticeship Boy Scouts of America Chemistry Elective **Career Preparation** Campus Service Organizations Career-Related Internship Community Service Volunteer Digital & Interactive Multimedia Electives: Job Shadowing Girl Scouts of the USA High **United States History** Elective Peer Mentoring / Peer Tutoring Foreign Language III \*\* Algebra II or Pre-Calculus Core Courses: **Professional Communications or Speech** Physics Career-Related Web Technologies COLLEGE CREDIT OPPORTUNITIES -- High School Electives: English IV Government/Economics Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus. Pre-Calculus or Calculus Elective Core Courses: 4th Science Elective Career-Related Research in IT Solutions Electives: **How to Become a Computer Support Specialist Carrer Options Professional Associations:** Because of the wide range of skills for different computer support jobs, there are many paths into the occupation. A bachelor's degree is (Sample of reported job titles) Technical Services Industry Association required for some computer support specialist positions, but an associate's degree or postsecondary classes may be enough for others. Help Desk Institute (HDI) After being hired, many workers enter a training program that lasts for several months. Association for Computing Machinery Institute of Electrical and Electronics Engineers Computer Information Technology • Technical Support Specialist Specialist (IT Specialist) Network Support Specialist Computing Research Association **Texas Southmost College South Texas College Texas State Technical College** Support Specialist • Electronic Data Processing National Workforce Center for Emerging Technologies Computer Technician Auditor (EDP Auditor) National Center for Women and Information Technology Computer Support Specialist Network Technician Computer Information Technology Computer and Information Technologies Computer Systems Management Technology (CERT) CERT) Specialist (CERT) Help Desk Analyst • Computer Specialist Microsoft Certified Application Computer and Internet Specialist Computer Systems Management Postsecondary Specialist (CERT) Certificate (CERT) Technology (AAS) Computer Information Systems Computer Support Specialist (CERT) (AAS) Information Security Specialist (CERT) Technology (AS) The University of Texas at **The University of Texas - Pan Brownsville American**

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plan meet high school graduation requirements as well as college entrance requirements.



# **Computer Support Specialist**

TEA Industry Cluster	Computer/IT
SOC Code	15-1041
Identified by	JFF Software; TWC LCMI; Tech Prep Occupations
Projected Growth (2018)	12 %
BISD Magnet School Available	Yes

Source: Demand Occupations by Cluster, updated June 27, 2012

#### **Description**

#### **What Computer Support Specialists Do**

Computer support specialists provide help and advice to people and organizations using computer software or equipment. Some, called technical support specialists, support information technology (IT) employees within their organization. Others, called help-desk technicians, assist non-IT users who are having computer problems.

#### **Duties**

#### **Technical support specialists** typically do the following:

- Test and evaluate existing network systems
- Perform regular maintenance to ensure that networks operate correctly
- Troubleshoot local area networks (LANs), wide area networks (WANs), and Internet systems

Technical support specialists, also called computer network support specialists, usually work in their organization's IT department. They help IT staff analyze, troubleshoot, and evaluate computer network problems. They play an important role in the daily upkeep of their organization's networks by finding solutions to problems as they occur. Solving an IT problem in a timely manner is important because organizations depend on their computer systems. Technical support specialists may provide assistance to the organization's computer users through phone, email, or in-person visits. They often work under network and computer systems administrators, who handle more complex tasks. For more information, see the profile on network and computer systems administrators.

#### Help-desk technicians typically do the following:

- Pay attention to customers when they describe their computer problems
- Ask customers questions to properly diagnose the problem
- Walk customers through the problem-solving steps
- Set up or repair computer equipment and related devices
- Train users to use new computer hardware or software, including printing, installation, word processing, and email
- Give information to others in the organization about what gives customers the most trouble and other concerns customers have

Help-desk technicians, also called computer user support specialists, usually provide technical help to non-IT computer users. They respond to phone and email requests for help. Sometimes they make site visits so that they can solve a problem in person.

Help-desk technicians may solve a range of problems that vary with the industry and the particular firm. Some technicians work for large software companies and for support service firms and must give instructions to business customers on how to use complex programs. Others work in call centers answering simpler questions from consumers. Some technicians work for organizations and help non-IT workers with their computer problems.

#### **Training Opportunities Linked to Those Jobs**

(Degree Types and Colleges/Universities)

#### **How to Become a Computer Support Specialist**

Because of the wide range of skills for different computer support jobs, there are many paths into the occupation. A bachelor's degree is required for some computer support specialist positions, but an associate's degree or postsecondary classes may be enough for others. After being hired, many workers enter a training program that lasts for several months.

#### **Education and Training**

Training requirements for computer support specialists vary, but many employers prefer to hire applicants who have a bachelor's degree. More technical positions are likely to require a degree in a field such as computer science, engineering, or information science, but for others the applicant's field of study is less important. Some lower level help-desk jobs or call-center jobs require some computer knowledge, but not necessarily a postsecondary degree.

Computer support specialists usually get on-the-job training after they are hired. For many workers, this training lasts for about 3 months. The training period may be longer for more complex jobs.

To keep up with changes in technology, many computer support specialists continue their training throughout their careers.

#### **Advancement**

Entry-level support specialists often work on simple problems. Over time, they may advance to positions that handle questions on complex software or equipment. Many of these workers advance to other IT positions, such as network and computer systems administrators or software developers. Some become managers in the computer support services department. For more information, see the profiles on <a href="network and computer systems">network and computer systems</a> administrators and software developers.

#### **Important Qualities**

*Interpersonal skills.* Computer support specialists must be patient and sympathetic. They must often help people who are frustrated with the software or hardware they are trying to use.

**Listening skills.** Support workers must be able to understand the problem that their customer is describing and know when to ask questions to clarify the situation.

**Problem-solving skills.** Support workers must identify both simple and complex computer problems, analyze them, and provide a proper solution.

**Speaking skills.** Support workers must describe the solution to a computer problem in a way that a nontechnical person can understand.

*Writing skills.* Strong writing skills are useful for preparing instructions and email responses for employees and customers.

Texas Southmost College	South Texas College	Texas State Technical College	The University of Texas at Brownsville	The University of Texas - Pan American
Computer Information  Technology (CERT)	Computer and Information  Technologies Specialist (CERT)	Computer Systems  Management Technology  (CERT)		
Microsoft Certified  Application Specialist (CERT)	Computer and Internet  Specialist Certificate (CERT)	Computer Systems  Management Technology  (AAS)		
Computer Information  Systems (AAS)	Computer Support Specialist (CERT)			
Technology (AS)	Information Security  Specialist (CERT)			

### **Local Employers**

A Specialist Transit	<u>Brownsville</u>	Frost Bank	<u>Harlingen</u>
Agency Nurses	<u>Harlingen</u>	<b>Morningside Elementary School</b>	<b>Brownsville</b>
Amaya Surveying CO	<u>Brownsville</u>	On Call Answering Svc	San Benito
Brewer Office Systems	<u>Harlingen</u>	Roser & J Cowan Logistical Svc	<u>Brownsville</u>
Brown Leal & Assoc	Harlingen	Wells Fargo Bank	Brownsville

## **Career Options**

(Specific Job Types)

<ul> <li>Information Technology Specialist (IT</li> </ul>	Technical Support Specialist
Specialist)	<ul> <li>Network Support Specialist</li> </ul>
<ul> <li>Support Specialist</li> </ul>	<ul> <li>Electronic Data Processing Auditor (EDP</li> </ul>
<ul> <li>Computer Technician</li> </ul>	Auditor)
<ul> <li>Computer Support Specialist</li> </ul>	Network Technician
<ul> <li>Help Desk Analyst</li> </ul>	Computer Specialist

### **Salary Ranges**

The wage occupation *Computer support specialist* aggregates data for these 2 occupations: Computer Network Support Specialists ----- Computer User Support Specialists

Location	Pay	Pay 2011				
	Period	10%	25%	Median	75%	90%

Location	Pay	2011					
	Period	10%	25%	Median	75%	90%	
United States	Hourly	\$13.93	\$17.78	\$22.91	\$30.06	\$39.03	
Officed States	Yearly	\$29,000	\$37,000	\$47,700	\$62,500	\$81,200	
Texas	Hourly	\$14.15	\$18.14	\$23.42	\$31.87	\$41.26	
	Yearly	\$29,400	\$37,700	\$48,700	\$66,300	\$85,800	
Brownsville-Harlingen, TX MSA	Hourly	\$11.90	\$14.66	\$17.84	\$24.18	\$30.10	
	Yearly	\$24,800	\$30,500	\$37,100	\$50,300	\$62,600	
McAllen-Edinburg-Mission, TX MSA	Hourly	\$11.41	\$13.94	\$17.48	\$21.90	\$28.11	
	Yearly	\$23,700	\$29,000	\$36,400	\$45,600	\$58,500	

#### **Professional Associations linked to the Careers**

For more information about computer support specialists, visit <u>Technical Services Industry Association</u> <u>Help Desk Institute (HDI)</u>

For more information about computer careers, visit

<u>Association for Computing Machinery</u>

<u>Institute of Electrical and Electronics Engineers Computer Society</u>

<u>Computing Research Association</u>

For more information about IT education, visit

National Workforce Center for Emerging Technologies

For information about opportunities for women pursing IT careers, visit National Center for Women and Information Technology

#### **Sources**

The information provided in this document was collected from the following sources:

- Occupational Outlook Handbook (<a href="http://www.bls.gov/ooh/">http://www.bls.gov/ooh/</a>)
- O\*NET OnLine (http://www.onetonline.org/)
- Texas CARES (<a href="http://www.texascaresonline.com/">http://www.texascaresonline.com/</a>)
- CareerOneStop (<a href="http://www.careeronestop.org/">http://www.careeronestop.org/</a>)