

Network and Computer Systems Administrator

PANHANDLE

Average Wage
\$30.29

Average Annual
Job Openings
15

Employment in	2004	2014
	250	350

TEXAS

Average Wage
\$30.94

Average Annual
Job Openings
1,140

Employment in	2004	2014
	21,400	30,450

UNITED STATES

Employment in
2006
289,520

Female 29%
Minority 17%

EMPLOYMENT CODES

OES 85705 (evolving)

O*NET 15-1071.00
Network and Computer
Systems Administrators

JOB DESCRIPTION

Install, configure, manage and troubleshoot local area networks (LAN) and wide area networks (WAN). Connect entire systems of workstations, printers and modems to Internet, e-mail, and other application servers via fiber optic and other types of cables.



SKILLS AND APTITUDES NEEDED

- ◆ Aptitude for electronics
- ◆ Competent with business systems and computers
- ◆ Ability to identify and analyze problems
- ◆ Good communication skills
- ◆ Good manual dexterity and vision
- ◆ Basic knowledge of telecommunications, mechanical and engineering technology



Computer network *technicians* test and evaluate hardware and software to determine efficiency, reliability and compatibility with computer systems and upgrade components when necessary. This occupation may also include web page design. Technicians must keep their knowledge current with advances in convergence, bandwidth, speed of data transmission, operating systems, and application servers.

Many *administrators* have experience as systems analysts, computer engineers, programmers, operators or in other computer occupations. Employers seek *administrators* with experience in specific software or technology to be used on the job. In addition to technical skills, employers also seek administrators who have business and interpersonal skills.

Employment in the computer information systems and data processing services industries is expected to grow rapidly due to the increasing use of information technologies. In order to remain competitive, firms will continue to install sophisticated computer networks, set up Internet and intranet sites, and engage in electronic commerce.

PANHANDLE AREA PUBLIC TRAINING PROVIDERS

Training Provider	Direct	Related	Education Offering
Amarillo College Amarillo, Dumas, Hereford	√		A.A.S. (Associate in Applied Science Degree), Computer Information Systems Major
	√		A.A.S. (Associate in Applied Science Degree), Electronics System Technology Major - Networking Technology Option
Clarendon College Clarendon, Pampa	√		A.A.S. (Associate in Applied Science Degree), Computer Technology Major - Networking Administration
Frank Phillips College Borger, Perryton	√		A.A.S. (Associate in Applied Science Degree), MIS (Management Information Systems) Networking - Cisco and Microsoft Windows 2000 Major
Wayland Baptist University Amarillo	√		B.B.A. (Bachelor of Business Administration Degree) Management Information Systems Major
West Texas A&M University Canyon	√		B.B.A. (Bachelor of Business Administration Degree), Computer Information Systems Major

For information on Panhandle Area private training providers or public training providers outside of the Panhandle Area, please refer to the Resource Index.

LICENSE/CERTIFICATION

Professional and vendor-specific certifications are preferred and often required

HIGHEST EMPLOYMENT LEVELS BY INDUSTRY

Elementary/Secondary Schools	10%	Newspaper/Periodical/Book/Directory Publishing	4%
Local Government	9%	Internet Service Providers/Web Search Portal	4%
Insurance Carriers	6%	Data Processin/Hosting/Related Services	4%
Depository Credit Intermediation	5%	Colleges/Universities/Professional Schools	4%

FOR MORE INFORMATION

Association for Computing Machinery (ACM), 1515 Broadway, New York, NY 10036, (800) 342-6626, <http://www.acm.org>

Institute for Certification of Computing Professionals (ICCP), 2350 East Devon Ave., Suite 115, Des Plaines, IL 60018-4610, (800) 843-8227, <http://www.iccp.org>

Institute of Electrical and Electronics Engineers—USA (IEEE), 1828 L St. NW, Suite 1202, Washington, DC 20036-5104, (202) 785-0017, <http://www.ieee.org>

For additional website sources, please refer to the Resource Index.

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