

# Network Enterprise Administrator Pathway



WAUKESHA  
COUNTY TECHNICAL  
COLLEGE

SCHOOL OF  
Business

Required courses are listed below each level.

## Enterprise Support Technician CERTIFICATE

107-161	Service Learning 1	1 credit
150-175	Cisco1 Intro to Networks	4 credits
154-135	Fundamentals of Support	2 credits
631-183	IT Essentials A+	3 credits

### Industry Certifications:

CompTIA A+ Certification  
MTA Net Fundamentals

## IT Network Support Specialist CERTIFICATE\*

107-162	Service Learning 2	1 credit
150-131	Desktop Support	3 credits
150-176	Cisco2 Route/Switch Essentials	4 credits
150-188	Linux Essentials	3 credits

### Industry Certifications:

Cisco CCENT Certification  
MS Windows 7 MCTS  
LPI Linux Essentials

## Storage and Virtualization Administrator CERTIFICATE\*

107-163	Service Learning 3	1 credit
150-136	Server 2012 Admin	3 credits
150-149	VMware vSphere Install and Config	3 credits
150-150	Cloud Infrastructure and Services	3 credits

### Industry Certifications:

MS Server 2012 MCTS  
VMware VCP  
EMC EMCCIS Associate

## IT Security Administrator CERTIFICATE\*

107-164	Service Learning 4	1 credit
150-154	Shell Scripting	2 credits
150-156	Security+	4 credits
150-177	CCNA Security	3 credits

### Industry Certifications:

CompTIA Security+  
Cisco CCNA Security

## Network Enterprise Administrator TECHNICAL DIPLOMA\*

37 credits

*Technical Diploma is awarded upon successful completion of the above four certificates.*

## Network Specialist ASSOCIATE DEGREE\*

Additional 30 credits

107-103	IT Business Strategies	3 credits
107-117	IT Co-op/Internship	1 credit
107-184	IT Capstone	2 credits
150-xxx	IT Network Elective	3 credits
801-136	English Composition 1	3 credits
801-197	Technical Reporting	3 credits
801-198	Speech	3 credits
804-133	Math and Logic	3 credits
809-166	Introduction to Ethics	3 credits
809-195	Economics (or 809-143 Microeconomics)	3 credits
809-199	Psychology of Human Relations	3 credits

## BACHELOR'S DEGREE

\* Includes course or courses listed previously.

For course descriptions, prerequisites or substitutes, see [www.wctc.edu](http://www.wctc.edu).

# Network Enterprise Administrator Pathway Credentials



WAUKESHA  
COUNTY TECHNICAL  
COLLEGE

[www.wctc.edu](http://www.wctc.edu)

## Credential #1

### Enterprise Support Technician CERTIFICATE (9 credits)

Get an introduction to the roles and responsibilities of an enterprise support technician, gain hands-on experience in service management applications, and learn to apply problem-solving techniques and communication skills to provide end users with technical support. Learn real-world enterprise support skills including hardware and software installation and configuration, trouble shooting and problem resolution, customer support skills and the fundamentals of Cisco networking. Skills learned provide preparation for the CompTIA A+ certification exam.

## Credential #2

### IT Network Support Specialist CERTIFICATE (14 credits)

IT network professionals support network systems critical to daily business operations, guaranteeing networks are secure and connected. Develop the knowledge, skills and confidence to implement, manage and troubleshoot small, medium and large networks. Gain the skills required for the Microsoft Windows 7 MCTS, the LPI Linux Essentials and the Cisco CCENT certifications. This certificate will provide the foundational knowledge necessary for those pursuing a challenging career in IT networking.

## Credential #3

### Storage and Virtualization Administrator CERTIFICATE (16 credits)

Develop knowledge and skills necessary to support dynamic IT infrastructures and utilize virtualization technologies to optimize efficiency, resiliency and control over complex network environments. Learn about the technologies required to build classic, virtualized and cloud data center environments. Gain practical experience with Microsoft Server 2012, VMware vSphere and Microsoft Hyper-V technology in preparation for the VMware VCP5-DCV and Microsoft 70-410 certification exams. Enhance skills with emerging information storage and management solutions to prepare for the EMCCIS (EMC Cloud Infrastructure and Services) Associate certification exam.

## Credential #4

### IT Security Administrator CERTIFICATE (20 credits)

Building on a solid knowledge base of network infrastructure and the Linux operating system, develop specialized security skills to enhance IT careers. Take an in-depth look at security risks and threats to an organization's data, and use a structured approach to address the safeguarding of critical electronic assets. Learn to implement security solutions using Cisco routers, switches and Adaptive Security Appliances. Use enhanced system tools, such as Power Shell and Bash, to automate system administration. Extensive hands-on labs build practical experience in configuring a variety of network operating systems, firewalls, virtual private networks (VPN), packet filters and intrusion detection systems (IDS) to maximize information security in the network. Prepare for the CompTIA Security+ certification exam.

## Final Credential

### Network Enterprise Administrator TECHNICAL DIPLOMA (37 credits)

Develop a solid base of technical skills designed needed for working in the complex world of network and security technology. This technical diploma has been created for those individuals who already have some industry or educational experience and are looking to strengthen their existing technical skill set. Gain valuable hands-on experience in computer hardware, Cisco networking, Microsoft and Linux operating systems, virtualization/storage technologies and security system hardening techniques. Upon completion of the technical diploma, students can continue their network education with an additional 30 credits to graduate with their IT Network Specialist associates degree.

For more information, visit [www.wctc.edu/pathway](http://www.wctc.edu/pathway)  
or contact Danielle Hoffman at 262.691.5335 or [dhoffman17@wctc.edu](mailto:dhoffman17@wctc.edu).



*The expanded Network Enterprise Administrator training opportunities are available thanks to a TAACCCT grant, and priority is given to veterans and TAA workers (those who lost jobs due to layoffs as a result of foreign trade). The \$23.1 million grant from the U.S. Department of Labor's Trade Adjustment Community College and Career Training (TAACCCT) Grant, which is shared among Wisconsin's 16 technical colleges, has made this training possible.*

*To learn more about how the grant supports programming, contact the IT Skills and Placement Coordinator, at 262.691.5335.*