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## Network Administration

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### Introduction and Procedure

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This topic area will demonstrate competency in LAN management, security system structuring, print queues, disk management, installation and upgrades.


A student must have successfully completed all Microcomputer Operating System prior to starting to work on the Network Administration competencies.

A student must achieve a minimum of 80% of the total points allowed for this competency. That equates to 544 points out of 680 points. How this score is calculated can be found as descriptions under the various topics. Do not assume that each task is successfully accomplished if 80% is achieved for that particular task. Take notice of the variances.

Completion of the following tasks are required:

1. **Network Administration LabConnection Virtual Labs:** (Complete ALL virtual labs and score at least 80% on each lab. These labs can be accessed via the link given below. Since the student will need to purchase an access code for these labs, a link is also provided below to do that.)
2. **Network Competency Assessment #1** (An assessment using multiple choice, and short answer and essay type questions; student gets two attempts to achieve the required score.)
3. **Network Competency Assessment #2** (An assessment similar in format to assessment #1 cover other materials; Student gets two attempts to achieve the required score)


Furthermore, in order to assist the student, Digital resources are provided as learning tools to enhance the student's knowledge as preparation for accomplishing any of these tasks.



### Required Competencies To Achieve

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- Differentiate among various operating systems.
- Differentiate among various techniques for making a computer network secure.
- Identify a variety of enterprise-level digital storage technologies.



### Digital Learning Resources

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This folder contains the digital learning resources for the Network Administration competencies.




### Lab Connection Purchasing

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- The student must purchase the access code to complete LabConnection (Online Labs) Assignment
- All labs must be completed
- A score of at least 80% must be earned on each lab before points are awarded. See details under the LabConnection assignment.

Lab access code purchase: [Tomsho LabConnection-Printed Lab Access Card: MCSE/MCSA Guide to Installing and Configuring Microsoft Windows Server 2012 /R2, Exam 70-410 by Greg Tomsho ISBN: 9781305072398](#)




### Network Administration LabConnection Virtual Lab Competency Assessment

Contains 24 labs (Need 80% on each lab to receive 10 points for a max of 240 points: 80% overall score for assignment is 192)



### Network Administration Competency Assessment #1

Consists of matching and multiple choice questions. Max 200 points (80% = 160 points)



### Network Administration Competency Assessment #2

Final Exam - based upon Tomsho textbook Max 240 points or 80% = 192 points




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## Digital Learning Resources

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**Traditional Textbook Information**

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The textbook used in the traditional classroom for Network Administration is the MCSA Guide to installing and Configuring Microsoft Windows Server 2012/R2, Exam 70-411, 1st Edition by Greg Tomsho. ISBN 13: 978-1285868653 or ISBN 10: 128586865X.

Students may elect to purchase the traditional textbook to assist with learning competency assessment or to serve as a reference manual.

The full bundle that LFCC provides in the book store is comes with the textbook trail software, and Web-Based Lab access. ISBN 13: 978-1305524057 or ISBN 10: 1305524055.
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**70-411 and 70-417 - MCSA: Windows Server 2012**

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This 1 hour 18 minute video by [Alfred Ojukwu](#) will help you learn the topics for Microsoft's exam 70-411 and 70-417
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**Microsoft MCSA/MCSE Exam 70-411: Administering Windows Server 2012 Training**

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This 19 minute video from CareerAcademy.com on Microsoft Exam 70-411: Administering Windows Server 2012 focusing on the topic of "Audit Policies"
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**Exam 70-411 Administering Windows Server 2012 Prep**

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This 12 video series from Astrit Krasniqi will help explain Microsoft Network Administration
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**Microsoft Technet**

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This link takes you to the Microsoft Technet for Windows Server 2012
- 


**What's New in DFS Replication in Windows Server 2012 R2**

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This link is a Microsoft Technet online resource
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**What's New in File Server Resource Manager in Windows Server 2012 R2**

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This weblink provided by Microsoft
- 

**Web Application Proxy Overview**

Link provided by Microsoft Technet

**Lord Fairfax Community College (LFCC)**

173 Skirmisher Lane

Middletown, VA 22645-1745

[LFCC.edu](http://LFCC.edu)



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