REGIS UNIVERSITY
College for Professional Studies
Learners Becoming Leaders

CN 476 Converged Networks
Challenge Exam – Study Guide

Instructions:

This exam is designed to test your knowledge and understanding of investigating and analyzing networking concepts and technologies as they apply to modern systems. An understanding of the basic principles of networks as outlined in the Regis CN 476 course module and your ability to apply these concepts to the real world is required.

The Challenge Exam also has some tips on how to complete the exam. Remember that you have five days to complete this exam.

1. The exam requires you to design a basic converged network with all components that you describe in the paper
2. Describe in a short paper the design and why you used the components that you included (Hardware & Software)
3. Identify business and technical issues of integrating voice, FAX, Text, and Data Communications
4. Demonstrate content knowledge of transport of analog and digital networks
5. Demonstrate benefits of multiple communication requirements in a network
6. Demonstrate creativity and critical thinking in preparing the design
7. Use the **APA format** and Include a bibliography of sources
8. Reference the Rubric and the network sample included in the exam

Text:

Bates, R. G. (2007). *Voice & Data Communications Handbook (5th Edition).* New York: Mcgraw-Hill ISBN-13:978-0-07-226335-0.

Understand the following:

- What is a voice, video, data, and FAX converged network
- Protocols used in a converged network
- SS7 application
- Security
- Components (Hardware & Software)

Sources:

- http://webtorials.com
- Wikipedia & How Stuff Works
- Note: The above two sources are good for general information but may include biased information (written by a vendor)