



COURSE OUTLINE

ICT 130

SERVER MANAGEMENT 1

**45 HOURS
3 CREDITS**

PREPARED BY: Doug Rutherford, Instructor

DATE: December, 2017

APPROVED BY: Margaret Dumkee, Dean

DATE: December, 2017

APPROVED BY ACADEMIC COUNCIL: (date)

RENEWED BY ACADEMIC COUNCIL: (date)

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SERVER MANAGEMENT 1

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COURSE DESCRIPTION

This is the first of two courses aimed at the management of Windows server operating systems in a corporate environment. The course looks at selecting the appropriate version of Window server and installing it on a physical or virtual server, creating and configuring an Active Directory network and configuring and managing Windows server in a variety of infrastructure roles.

PREREQUISITES

Acceptance into the Computer Support Technician Program, ICT 114 or equivalent (e.g., successful completion of the CompTIA Networks+ exam)

RELATED COURSE REQUIREMENTS

None

EQUIVALENCY OR TRANSFERABILITY

None

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to

- Select the appropriate version and install Windows Server on a physical or virtual server
- Install and configure an Active Directory infrastructure
- Create and manage Group Policy objects
- Subnet an existing TCP/IP network and configure servers to meet their various infrastructure roles.

COURSE DELIVERY:

The course is delivered online through the BC Campus system. It is delivered over an 8-week period.

COURSE FORMAT:

This course is delivered as part of the Computer Support Technician program in an online format, comprising a mix of synchronous and asynchronous delivery. This will include online class meetings as well as students covering material at their own time. As this is an on-line course, attendance requires participation in the course, not time in a classroom. However, students must ensure that they complete their required participation in online discussions and other similar assignments

ASSESSMENTS

Attendance & Participation

Attendance at class meetings is recommended to ensure students have the ability to immediately clarify class material. However, meetings are also recorded and posted class page for those who cannot attend meetings.

Assignments

There are 5 assignments which will require performing tasks and documenting these in appropriate journal style. Each assignment is worth 6% of the course mark.

Cases

There will be 5 cases on applying the course material, each worth 6% of the course mark.

Final Exam

A final invigilated exam will cover all of the course material. It is worth 40% of the total course mark.

EVALUATION

Assignments	30%
Cases	30%
Final	40%
Total	100%

REQUIRED TEXTBOOKS AND MATERIALS

Panek, William. *MCSA Windows Server 2012, Complete Study Guide*. (Indianapolis: John Wiley & Sons, 2013). ISBN: 978-1-118-54407-5.

Computer:

Students will require a computer capable of running Windows Server 2012 and a virtual copy, with a minimum 1.4 MHz, x64 processor (note that Windows Server 2012 will not run on a 32 bit processor), a minimum of a 1 GB of RAM and a minimum of 65 GB of free drive space. Since students will be required to install a second virtual copy, the first installation cannot be a virtual one and students should have a second computer for doing regular course work.

Students will require a copy of Windows Server 2012 standard. A 180-day evaluation copy can be downloaded from the Microsoft web site.

Students will need an acceptable internet connection to attend online classes or the class recordings.

ACADEMIC AND STUDENT CONDUCT

Information on academic standing and student rights and responsibilities can be found in the Academic Regulations:

http://www.yukoncollege.yk.ca//downloads/Yukon_College_Academic_Regulations_and_Procedures_-_August_2013_final_v1.pdf

PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when students present the words of someone else as their own. Plagiarism can be the deliberate use of a whole piece of another person's writing, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material. Whenever the words, research or ideas of others are directly quoted or paraphrased, they must be documented according to an accepted manuscript

style (e.g., APA, CSE, MLA, etc.). Resubmitting a paper which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the College.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon College recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon College program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukoncollege.yk.ca/yfnccr.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon College Academic Regulations (available on the Yukon College website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC) at (867) 668-8785 or lassist@yukoncollege.yk.ca.

TOPIC OUTLINE

Unit	Subject
1	Installing and Configuring Windows Server 2012
2	Domain Name Service
3	Active Directory Planning and Installation
4	Administering Active Directory
5	Managing Group Policy Objects
6	Configuring an Active Directory Infrastructure
7	Configuring Active Directory Server Roles
8	Using Virtualization in Windows Server 2012

9	Configuring TCP/IP
10	Final Examination covering the class material