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| **Sheridan College** | | |
| **Course** | **Data Network Design and Configuration –**  **Routers and Switches** | |
| **Professor** | **Ida Leung** | |
| **Student Name/ID** |  | |
| **Table number** |  | |
| **Assignment #1** | | |
| **Performed Date** |  | |
| **Instructor's Sign** |  | **(marks)** |

**OBJECTIVES:**

* Network Design based on Requirement

# Specification for the new network Deployment for Company I

* 500 users will work in a working space about 50000 square feet within a four floor buildings.
* Company I has two Internet connectivity to two different service provider to provide redundancy
* Company I own its own AS# 2345 and Public IP addresses block 24.113.0.0/20
* Company I have 35 servers for internal use only. These servers can also able to access through VPN for its employers.
* Company I also have four servers for external clients. Two are to host the company webpages and two are for customers online ordering.
* Company I would like to provide protection for its network

# Based on the requirement to create a bill of material for the network and please provide the details of design by drawing and description in details for the following:

* IP address assignment for users, servers, network devices
* Network devices connectivity
* Protocol involve in the routers/servers/switches if applied
* Access point deployment consideration
* Types of service servers setup and connectivity
* Proposed topology for Company I