



Network Design

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Contest Overview and Components

The Network Design contest is constructed to challenge participants on many levels. Teams will create a proposal for a network design given the problem statement scenario. Elements will include LAN design, WAN connectivity, network components, protocols used, security issues and network architecture and a budget.

Teams will be given the problem statement at the beginning of the contest time. Time will be allowed to read the problem statement and ask any questions in a common session. Once the question & answer time has closed, no further questions will be answered. At the end of the contest period, each team will be asked to copy their solution for judging, per instructions provided with the problem statement.

Contest Note: students must be capable of saving their submissions on a USB flash drive from their personal computers.

Team Composition

Individuals or teams of 2 students can register for this competition.

Skills

- A good understanding of internet worked systems
- Critical thinking and evaluation skills for enterprise infrastructure design
- The ability to construct a budget for the items and services necessary to solve the problem
- The ability to create professional quality documentation that meets problem statement requirements for stated audience

Scoring

- Functionality: 35%
- Efficiency: 30%
- Creativity: 20%
- Organization of the Proposal: 15%

A specific rubric for scoring will be distributed at the contest

Schedule

See contest schedule for contest time and place. The time will include contest overview, contest work and turn in.

Check in will begin 20 minutes before the contest begins.

Resources

Each team must have at least 1 computer to complete your project

No specific resources are required for the competition, however the follow will be useful:

- Diagraming tools such as *Visio*, *Lucid Chart* or *yEd*
- Software to generate Microsoft Word or PDF documents
- An Internet browser for looking up technical specs and pricing

Final documents must be submitted as a file that can be read using Microsoft Word 365 or as a PDF.