**NETWORK DESIGN**
**CASE STUDY**

## PARTICIPANT INSTRUCTIONS

1. You have 20 minutes to review the case.

2. Presentation time is seven minutes. At six minutes the timekeeper will stand and hold up a colored card indicating one minute is left and at seven minutes the timekeeper will stand and hold up a colored card indicating time is up.

3. The presentation is interactive, and the judges will ask questions throughout the presentation. Your team works for a national exterminating company's information technology division.

4. Each team member will be given two note cards. Note cards will be collected following the presentation.  A flip chart will also be available.  Flip charts will be collected following the presentation.

5. All team members must participate in the presentation as well as answer the questions posed by the judges. Cover all the points described in the case.

## PERFORMANCE INDICATORS

- Logical solution is selected and presented with positive and negative aspects of its implementation given.
- Alternatives are recognized with pros and cons stated and evaluated.
- Thoughts and statements are well organized and clearly stated; appropriate business language is used.
- Demonstrates ability to effectively answer questions.

**CASE STUDY SITUATION**

Your team works for a national exterminating company's information technology division. The team focuses on setting up networks for new local branch offices. In this situation, you have been asked to come in and set up a system in a newly constructed warehouse facility. The interior of the building is basic construction with steel beams for support and drywall for walls (limited insulation). The exterior of the building is metal.  Assume the shape of the facility is square with 10 offices, a reception area, and a meeting room located within.

Scenario
Your team is being asked to set up a system for 10 wired computers, 30 wireless devices, and 30 laptops. The company needs easy and efficient connections for the sales reps go in and out of the office without issues with service. The network needs to be able to handle any software program including ones that require large amounts of data. Additionally, the system needs to match with a company-wide initiative that allows company representatives to visit the branch and have the same accessibility.

Other Useful Information
   ● This branch is in a recently developed suburban area that has the most current technological infrastructures and related technology offerings.
   ● Your plan should include a complete network and computer system that meets these requirements and possible expansion plans in the future or during the event as needs arise.

Things to Consider
You must address the following in your presentation:
   ● Ensure that a backup system is in place.
   ● Explain how your plan focuses on cost efficiency.
   ● Address the differences in using LAN vs. wireless options.

Complete your proposal including costs for computing equipment, network infrastructure, network servers, printers, software, and accessories.  Include as much detail as possible as well as justification for your selections.  Diagram and explain your physical network and computer design as well as the logical network design (server installation, domain layout, etc.).