VOIP Requirements

Network Cabling

Cabling requirements for VoIP
- CAT5e/6
  o Preferred - Best case scenario
- CAT5
  o Not fully supported for 10/100/1000 applications
  o Can work, some risk in certain scenarios
- CAT3 will need to be replaced
- Each VoIP phone will need to connect directly to a PoE switch
  o No Ethernet splitters

Network Switching

- Power over Ethernet
  o Must support 802.3af POE standard
- VLANS
  o Phones must be on a separate voice VLAN
- Quality of Service (QOS)
  o Switches must be able to respond to DSCP markings and prioritize voice appropriately
- Switching Options:
  o Re-use existing switches if the requirements above are met
  o Purchase new Cisco switches (models to be suggested by Netech)
  o Purchase Power Midspans (models to be suggested by Netech)
  o Purchase Power cubes for each phone