INFO 300 LAN Project

Grading Rubric

Minimum Specs

The drawings, budget, and summaries are of no value in a portfolio if they are sloppy or inaccurately drawn and won't earn points for the project.

Hand-drawn diagrams, or hand-drawn marks on the printed copy, are not acceptable. Projects will be rejected if the pdf copies are not properly formatted, for example with font too large or a column too narrow to fit a column of extended costs without wrapping on a line, or without the customary columns.

Where connectors are used to represent network drops on the floorplan or jumpers on the rack they must be drawn with straight connectors with curved bends. Do not use curved or freely drawn connectors. Place network drops close to walls where they'll be supported on hooks. Do not use red or yellow for drops or jumpers. Green, blue, or orange are better colors. Black & White drawings are fine if the drops and jumpers are shown clearly.

Projects that don't meet these minimum specs will not be accepted and will be docked daily for late submit until they do.

Required Parts: 1) Cover page describing the project. 2) Detailed Total Cost of Ownership for project. 3) Warehouse Floorplan. 4) Network Rack Diagram

- Summarize up-front and recurring costs separately. Projects that do not provide these summaries in the customary format will be rejected at first submission. The Boss wants to be able to compare your up-front and on-going costs with others without getting out a calculator!
- Make sure the printed diagrams fill the pages and are easily usable as printed. The printed dimensions of the warehouse walls must be 8 3/4 X 6 inches. Make 'skeletons' of your floorplan and rack diagram and try printing them _before_ putting much effort into the details and try printing them. Projects that can't be read as printed without a magnifier or do not fit on the printed page will be rejected
- On the floor plan, after drawing the walls place telecom outlet symbols on the walls where each ethernet jack will be placed. Place them to avoid pulling jumpers along the wall, around a corner, or over the floor to connect equipment. After the telecom outlets have been placed, put a wall segment in the network room to represent the rack, place a connection point on it and move it to the layer with the Telecomm outlets (data and flow terminals), then lock the walls and turn off their snap and glue. Use straight connectors between the connection point in the network closet and the telecom outlets, and format them with curved bends. Represent the bundles and drop wires separately by bundling together the drops or by using a thicker connector to represent the bundle and peel each drop off it. Do not draw bundles or drops on top of the walls, keep them inside the premises and clearly visible.
- After placing equipment on the rack diagram, place connection points where each jumper connects to equipment or patch panel. **Use callouts or other neat technique to label each ethernet port with its IP assignment. Do not label the jumpers.** Format straight connectors with curved bends for jumpers, not thin or with right-angled bends. Avoid crossed connectors, kinks, and extra bends to make a neat drawing.

An 'electronic' copy as a single pdf that contains all requested parts: Floor plan with furnishings, premises wiring, and wall jacks; Rack diagram clearly indicating the DMZ and IP addresses; and an accurate Summary of Upfront and Ongoing Costs. Submit electronic copy to the instructor by midnight on April 3, 2020.

	Poor 10 pts	Fair 15 pts	Good 20 pts	Great 25 pts
Design This portion reflects the design portion of the project including rack design, computer layout, warehouse layout, and wiring diagrams.	Poor Little or no design present one requirement present.	Fair Basic design, at least two requirements are present. Not updated.	Good Design is mostly complete, at least 3 requirements are present some updates, but not current.	Great Design is complex, includes neat and clear documentation for jacks, network rack, and overall equipment layout. Easily readable with legend to represent symbols that are not clearly defined.
Hardware The hardware part of the project includes building the Network and specifying the hardware . this portion of the rubric reflects whether only the hardware works correctly.	Poor Only one or two hardware components have been implemented, network logical design will not communicate.	Fair All network hardware has been implemented; however logical IP addressing will not work as designed.	Good Project is built, all hardware components are implemented network logical design will communicate but numerous problems are present does not match design.	Great Network hardware in correctly implemented all components communicate network logical design will communicate and is overall consistent with the design.
Budget This is the software component of this project. Students will install server and client software and make appropriate network connections	Poor Budget is missing several components and is not clearly represented to understand the TCO or overall financial cost of the project.	Fair All budget items are present but not clearly represented or laid out to understand TCO or capital vs recurring costs are not clearly identified.	Good All budget items are present and TCO is identified but overall layout is no easy to read or follow.	Great Budget contains all up front and recurring costs clearly laid out in an easy to read and understand format. Total cost of ownership is easily identified, and no financial questions are left unanswered.
Overall Proposal Proposal should be presented in business like format and should flow. It should identify the scope of the project and the overall “solution” you are proposing.	Poor Project submitted is not cohesive and does not present a solution to the problem.	Fair Short paragraph only addressed one or two required components. Completed some but not all of the components and did not present a cohesive project that addressed the problem.	Good Project Proposal was well but missed one or more key components or did not completely solve the problem. Solution was missing components or did not transition well when reading.	Great Personal reflection was well written with all required components. Project proposal solved the problem and presented a concise easy to read plan and cost of implementation