A Lab Report Guideline on
Making a Straight-through & Cross-over Cables

1. Title, name, date, format (paragraph preferred, 12 Times New Roman, double space).
2. Purpose
   - What is the objective of your lab work?
3. Knowledge
   - What is a straight-through cable and what is a crossover cable?
   - What are the differences between the two cables?
   - What are the cables used for?
   - What standards do you use to make a straight-though cable and a cross-over cable?
   - Why are the standards important?
4. Tools and Materials
   - What tools do you use to make a straight-though cable and a crossover cable?
   - What materials do you use to make a straight-through and a crossover cable?
5. Process
   - Briefly describe the process you make the straight-through cable. (Steps may be numbered)
   - Briefly describe the process you make the crossover cable.
   - When you make the cable, what cautions do you take to ensure that the cable is reliable?
6. Test
   - What are the ten primary test parameters that must be verified for a cable link to meet the TIA/EIA-568-B standards?
   - Briefly describe how you test the straight-through cable?
   - Briefly describe how you test the crossover cable?
7. Conclusions
   - What is the result of the straight-through cable?
   - What is the result of the crossover cable?
   - How many cables did you make to get one good straight-through cable?
   - How many cables did you make to get one good crossover cable?
   - What are the conclusions of this lab?
8. Discussion
   - What is your biggest challenge to make the straight-through cable?
   - What is your biggest challenge to make the crossover cable?
   - What are the tips that you have learned?
   - What have you learned from this lab?
   - In what way(s) does the lab relate to what you have learned in class or from reading materials?
   - How are you going to improve it? (If you can't think of any improvements, then describe how the lab's concept could be further explored. Suggest "spin-off" experiments.)
   - What is the significance of learning to make the cables?
   - How can this lab work relate to the real business world?
9. Submit
   - Email the Lab Report to the Cisco Networking Conference in First Class.