



CITY COLLEGE OF SAN FRANCISCO DEPARTMENT OF ENGINEERING AND TECHNOLOGY

Lab Reports

All lab reports should be submitted *on time* and with a professional format. How they *look* is as important as the content they provide. They should be clear, concise and complete. Keep them as short as possible - *less is more!* The following provides an outline for your lab reports.

Title Page

- Lab group designation (A1, A2, B1, B2, C1 or C2)
- Name of lab team/consulting company
- Name of the lab experiment
- Class and Semester
- All team member names (full names spelled correctly) with their assigned class numbers in front of their name.

Objective

This is a very short statement addressing the purpose of the lab.

Background Theory

You should include enough information here so that a layperson would be able to understand the report. Your audience is your client, not your teacher. Think of yourself before you enrolled in this course. Include everything that you would need to know in order to understand what the experiment is about.

Materials and Equipment List

Procedure

Give enough information so that an interested party can recreate your experiment.

Data

This is the raw data that you collect during the lab session.

Calculations & Graphs

This is what you do to the raw data to gain insights into the material behavior. Show all sample calculations. Clearly label all graphs with a title, axis labels (with units), etc.

Analysis

Did anything go wrong? Did you get any unexpected results? Detail and explain in this section.

Conclusion

Be sure that your conclusion addresses the lab's objective.

Bibliography

Be sure to give credit where credit is due! And be aware that not all websites are legitimate sources! Do not assume Wikipedia is completely correct – cross check information to conform numbers.

Reference all pictures! Have a title for each and state it in the TOC/List of Figures!

ENGN 45 Lab Report Title Page Format

A1: Hammer and Tongs Thermal Analysis

**ENGN 45 - Material Science for Engineers
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