

Engineering Technical Reports

Main Page

Technical reports include various types of "technical" information. For example, if you need to report why a design or piece of equipment failed, you'd write a forensic report. Or, you might have to write about a design you created. Then, you'd produce a design report or, you may need to combine these two. Many report types are classified as technical reports. You should always determine what information you need to convey and who your audience is before you start writing.

Technical reports present facts and conclusions about your designs and other projects. Typically, a technical report includes research about technical concepts as well as graphical depictions of designs and data. A technical report also follows a strict organization. This way, when other engineers read what you write, they can quickly locate the information that interests them the most.

Audience

As a student, you might assume that your technical report's audience is your instructor, however, this may not always be the case. Your instructor may ask you to produce a report for your peers or for other engineers. However, you shouldn't always assume that your audience has a strong engineering background or is familiar with the engineering terminology you use. Always check with your instructor to know who your audience is.

As an engineer in the field, the most likely audience for the technical reports you produce is other engineers with a background similar to yours. This audience is more likely to understand the terminology you use. However, you should always evaluate who your readers will be before assuming they will understand your jargon. Consider how your readers will use your report. For instance, you might submit a technical report to a publication or your technical report may present a specific design. The audiences in each situation have different needs. Audiences may read the publication for information and insight while audiences reading about your specific design may critique your design or make decisions based on its content.

General Format

Technical Reports have an organized format because a majority of your audience may not read the entire report in one reading. This specific format allows readers to quickly locate the information they need.

Most technical reports include the parts listed below. However, you may be required to include or exclude specific sections. Be sure to check with your instructor before using the format outlined here.

Technical Report Format Engineers

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Technical Report Format Engineers:

How to Write Technical Reports Lutz Hering, Heike Hering, 2010-10-14 Technical Reports are usually written according to general standards corporate sign standards of the current university or company logical rules and practical periences These rules are not known well enough among engineers There are many books that give general advice in writing This book is specialised in how to write Technical Reports and addresses not only engineers but also natural sci th tists computer scientists etc It is based on the 6 edition published in 2008 by st Vieweg in German and is now published as 1 edition by Springer in English Both authors of the German edition have long experience in educating en neers at the University of Applied Sciences Hannover They have held many l tures where students had to write reports and took notes about all positive and negative examples that occurred in design reports lab work reports and in theses Prof Dr Lutz Hering has worked for VOLKSWAGEN and DAIMLER and then changed to the University of Applied Sciences Hannover where he worked from 1974 until 2000 He held lectures on Technical Drawing Construction and Design CAD and Materials Science Dr Heike Hering worked nine years as a Technical Writer and was responsible for many CAD manuals in German and English She is now employed at T V NORD Akademie where she is responsible for E Learning projects technical documentation and software training and supervises students who are writing their theses Prof Dr Ing *Civil Engineer's Handbook of Professional Practice* Karen Lee Hansen, Kent E. Zenobia, 2024-11-18 A single source guide to the professional practice of civil engineering Civil Engineer s Handbook of Professional Practice Second Edition assists students and practicing and professional engineers in addressing the many challenges they face This guide expands on the practical skills defined by the American Society of Civil Engineers ASCE s Civil Engineering Body of Knowledge CEBOK and provides illuminating techniques quotes example problems solutions case studies and valuable information that engineers encounter in the real world Including critical information on project management leadership and communication this powerful resource distills the Accreditation Board for Science and Technology s ABET s requirements for a successful career and licensure Due to the large amount of information that is presented in an easy to digest way this handbook enables civil engineers to be competitive at an international level building on their traditional strengths in technology and science while also providing the ability to master the business of civil engineering In this second edition readers will find Modern business topics such as design thinking affirmative action equal opportunity and diversity negotiation health and safety requirements construction management body language interpretation skills project management and scheduling Key discussions of executing a professional commission the engineer s role in project development professional engagement and ethics Updated examples of everyday challenges for civil engineers including defining the project establishing objectives and innovative approaches identifying resources and constraints preparing a critical path schedule quality control and orchestrating project delivery The latest applications of emerging technologies globalization impacts and new sustainability applications for civil engineers

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