

Written Proposals (1st to 6th weeks)

Each team of up to 3 students should submit a written project proposal, one to five pages long. The proposals should include enough detail to convince a reader that you have a good problem, you understand how hard it is, you have a plan for how to solve it, and you have an idea about experiments/research you might run/conduct to prevent/eliminate hazard situation(s) and/or improve working conditions at the workplace. Please do not be vague in your written descriptions. An example of a brief outline you might use is as follows:

- Goal
 - What are we going to do?
- Previous Work
 - What related work has been done?
- Approach
 - What approach are we going to try?
 - Why do we think it will work well?
- Methodology
 - What steps (task list) are required?
 - Which of these steps is particularly hard?
 - What to do if the hard steps don't work out?
- System Prototype
 - How will we know when we are done?
 - How will we know whether we have succeeded?
- Summary
 - What will we learn by doing this project?
- References
- Appendices

A course instructor will go over the project proposal of each team and advise the team about their best plan of the solution.

A case-oriented example of the outline is as follows:

- Project Description
- Problem Statement
 - Problem statement
 - Designing a team (team lead, team-mate in Statistics, team-mate in Technical Communication)
 - Data retrieval
- Related Work
 - Workplace health and safety conditions
 - Occupational health at the workplace
 - Occupational safety at the workplace
 - Ergonomics of the workplace
 - Employee productivity
 - Relationship between Workplace Health and Safety Conditions and employee Productivity
- Research Methodology
 - Interaction design
 - Fold sensor design
 - Paper design
 - Pattern recognition
 - Interface design
 - Structure design

- System integration
- Project plan
 - Risks
 - Resources required
 - Gantt chart
 - Milestones
 - Work allocation
- Conclusion
- References