

Case Study

Industrial Operations Management 2023

Half of your final grade will be obtained from a short presentation about the analysis of an industrial topic. This presentation will take place during our final lecture.

- 4 people each group - IND1 and IND2 separately.
- All 4 people have to talk and explain a part of the presentation
- 10 minutes each group (or less if we have more than 8 groups, to be confirmed once the groups are set).
- You have to use support slides (created on your own)

Our target is to train your presentation skills. You will have to look for information about your topic, filter it and create a solid but easy to understand presentation.

These skills will be very useful in your future professional career. A big part of an engineer's job is to present highly technical projects to people not necessarily close or familiar with the technological world: senior officers, investors, journalists, customers, suppliers... very different stakeholders.

Presentation structure:

1. Company/project presentation: organisation, history, strengths, weaknesses, management structure, financial structure, markets, forecasted data...
2. The industrial challenge from a technical point of view: opportunities, risks, new technologies being used, target markets...

3. The industrial challenge from a management point of view: change management, new organisation, new ways of doing the job... everything this project needed to be a success (or not) not involving the technical part.

4. Take home messages / Lessons Learned

1 different topic per group, two groups cannot share the same topic:

- The Airbus 380
- Tesla's Model 3
- Space X and its new approach to space launchers.
- OneWeb, Starlink and the future satellite megaconstellations
- The Hyperloop
- AI algorithms, Open AI Chat GPT
- The creation of a Cloud service (Microsoft Azure, Google Cloud or Amazon AWS, choose one or analyse the three of them).
- The Concorde (plane)
- The ITER project
- The Apollo program
- James Webb space telescope
- The Space Shuttle program
- Hydrogen cars, the Toyota Mirai