

# TU-A1300 - Introduction to Industrial Engineering and Management, 07.09.2020-30.11.2020

Dashboard / Courses / School of Science / department of... / tu-a1300 - in... / Sections / week 3: produ... / week 3 group ...

## Week 3 Group Exercise Submission

**Opened:** Monday, 21 September 2020, 2:15 PM

**Due:** Monday, 28 September 2020, 6:00 PM

Make a submission

Submit your project exercise for this week here.

### Your tasks:

#### 1. Planning of production system (2 pages)

- Describe your production with the 4V model (Volume, Variety, Variation, Visibility).
- Which type of production process is used in your production? (Wheelwright and Hayes)
- What stages of the production process does it involve?
- Explain the flow units, transformation, and value created in your production.
- Specify the resources needed in the production phases (Raw materials, equipment, and labor).

#### 2. Capacity (1-2 pages)

- Estimate the capacity of your production system: Provide an estimate of the theoretical capacity and describe the capacity constraints.
- Estimate the utilization rate of resources, i.e. how efficiently resources are used.
- What stage/resource in your production is a potential bottleneck?

**Recommended Format:** Times New Roman, size 12, line spacing 1.5, Harvard referencing

### Tips:

- Assign responsibility within your group as early as possible
- Search for relevant information and good sources online - in the real world you will not have all the information memorized, and that is normal
- If you have any questions, come to the exercise sessions and ask us in Telegram

### Deadline:

- The deadline is Monday, 28/09 at 18:00
- It is enough for 1 group member to submit the assignment
- The grading is on a scale from 0 to 100 and is converted to points at the end of the course

◀ Week 3 Case Studies

Week 4 Pre-lecture Readings ▶



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