

Project Engineerin

Task

by Alina Yeshchenko

• Initialization

• Received specification from Customer

• Planning

- Estimate the project costs
- Approve the cost of the project
- Development of design documentation

• Executing

- Buy equipment, materials, parts for assembly
- Reconstruction of the workshop
- Installation of equipment
- Commissioning works
- Product manufacturing
- Assembly

• Controlling and Monitoring

- First article inspection
- Design changes
- Second article inspection
- Documentation closure
- Product certification

• Closing

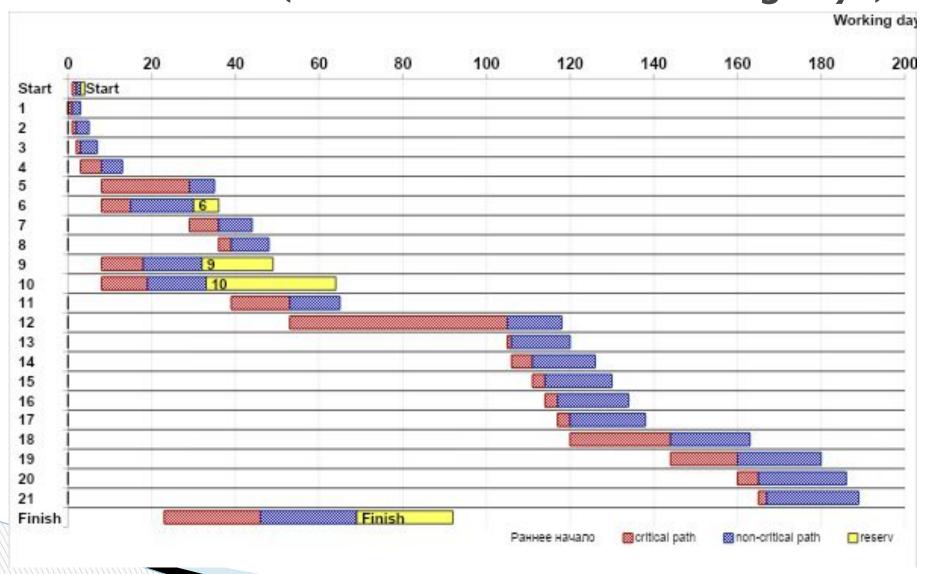
- Pack and transport products
- Installation to Aircraft
- Test installed product and repair defects
- Handover to Customer

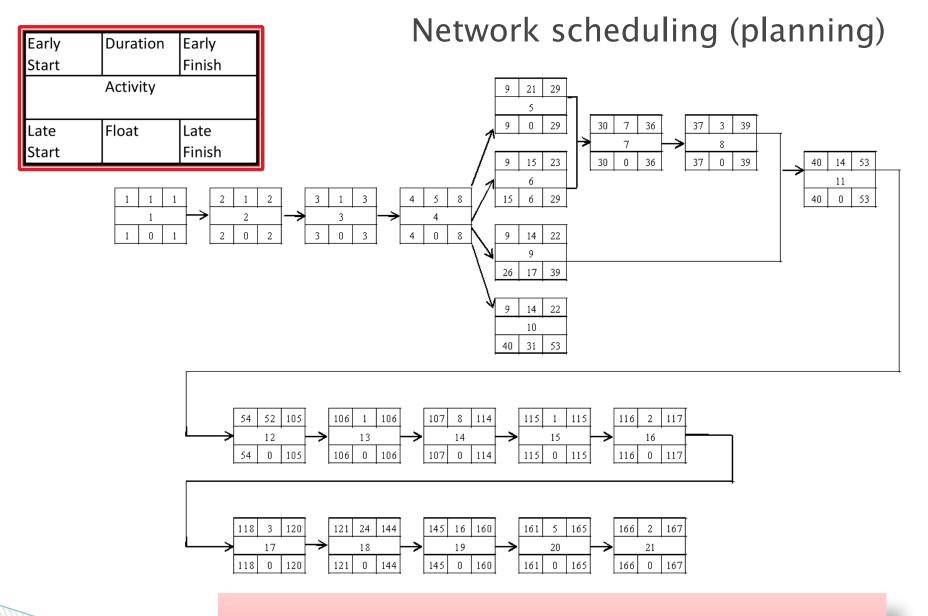
Project Life Cycle

Project Calendar

Task code	Task Name	Duration, days	Start date	Finish date	Predecessors
1	Received specification from Customer	1	02.01.2019	02.01.2019	_
2	Estimate the project costs	1	03.01.2019	03.01.2019	1
3	Approve the cost of the project	1	04.01.2019	04.01.2019	2
4	Development of design documentation (design data released)	5	07.01.2019	11.01.2019	3
5	Buy equipment	21	14.01.2019	11.02.2019	4
6	Reconstruction of the workshop	15	14.01.2019	01.02.2019	4
7	Installation of equipment	7	12.02.2019	20.02.2019	5,6
8	Commissioning works	3	21.02.2019	25.02.2019	7
9	Buy materials	14	14.01.2019	31.01.2019	4
10	Buy parts for assembly	14	14.01.2019	31.01.2019	4
11	Product manufacturing	14	26.02.2019	15.03.2019	8,9
12	Assembly	52	18.03.2019	03.06.2019	10,11
13	First article inspection	1	04.06.2019	04.06.2019	12
14	Design changes	8	07.06.2019	18.06.2019	13
15	Second article inspection	1	19.06.2019	19.06.2019	14
16	Documentation closure	2	20.06.2019	21.06.2019	15
17	Product certification	3	24.06.2019	26.06.2019	16
18	Pack and transport products	24	27.06.2019	30.07.2019	17
19	Installation to Aircraft	16	31.07.2019	21.08.2019	18
20	Test installed product and repair defects	5	22.08.2019	28.08.2019	19
21	Handover to Customer	2	29.08.2019	30.08.2019	20

Gantt diagram (duration of work in working days)

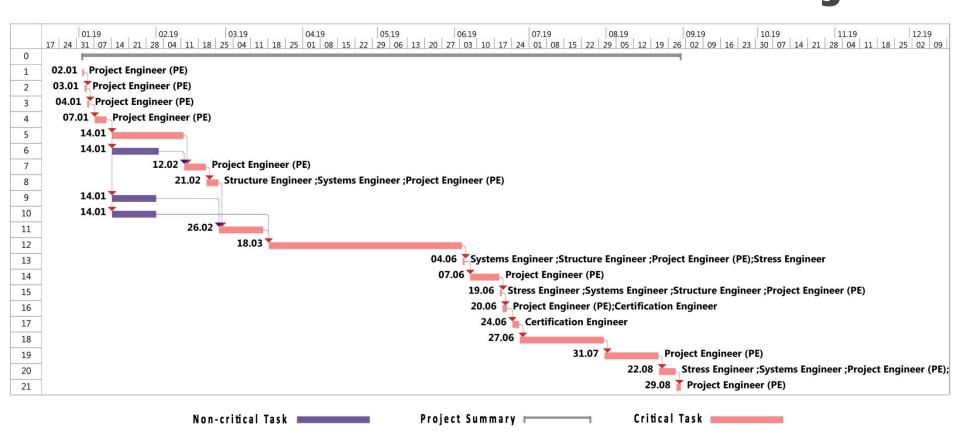




Project duration Lcr = 167 days

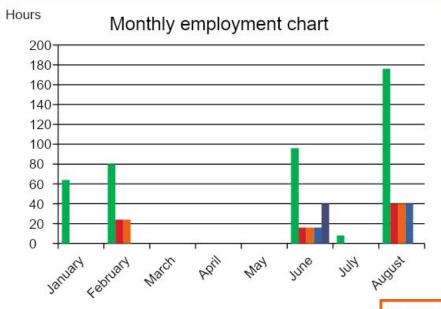
Critical path: 1-2-3-4-5-7-8-11-12-13-14-15-16-17-18-19-20-21

Gantt diagram in Microsoft Project

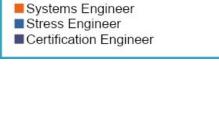


Critical Task. These activities have no float or slack time, because it will cause a delay in the completion of the project.

Non-critical Task. These activities have a certain amount of free time. If this activity is delayed, your project can still finish on time.



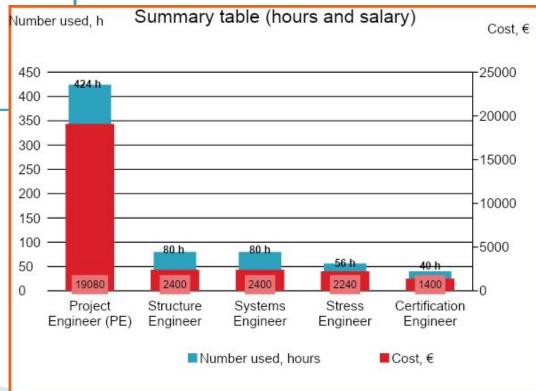
	Start Date	Finish Date	Number used, hours	Unit cost, €/hour	Cost, €
Project Engineer (PE)	02.01.19	30.08.19	424	45	19080
Structure Engineer	21.02.19	28.08.19	80	30	2400
Systems Engineer	21.02.19	28.08.19	80	30	2400
Stress Engineer	04.06.19	28.08.19	56	40	2240
Certification Engineer	20.06.19	26.06.19	40	35	1400



■ Project Engineer (PE)

Structure Engineer





Recurring cost and Non-Recurring cost

Recurring cost

- Keeping and exploitation of equipment
- Workshop expenses
- Factory expenses
- Salaries of staff and workers

Non-Recurring cost

- Purchase of equipment, materials and parts for assembly
- Repair of equipment
- Defective product expenses
- Expenses of packaging and transportation of finished products

Risk Assesment

Failure
to meet
deadline
The
influenc
e of
external
staitgs
mone'
employe
e in too
many

· To detail the work plan.

· Work with several supplier s of

Properly distribut e resource

· Exclude overtime work.

Overtim e work

Financial risk

Emergen cies

· It is possible to reduce financial

insure theunus to coperety

Thank you for your consideration.