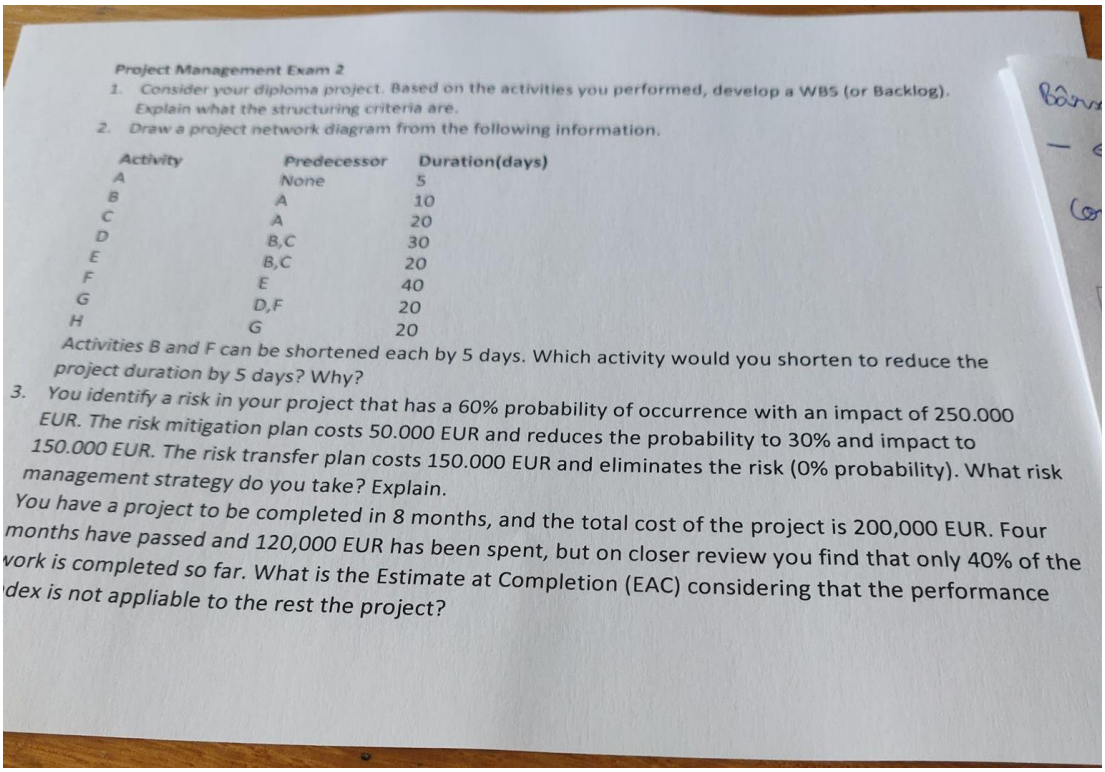


Project Management Exam 2

1. Consider your diploma project. Based on the activities you performed, develop a WBS (or Backlog). Explain what the structuring criteria are.
2. Draw a project network diagram from the following information.

Activity	Predecessor	Duration(days)
A	None	5
B	A	10
C	A	20
D	B,C	30
E	B,C	20
F	E	40
G	D,F	20
H	G	20

Activities B and F can be shortened each by 5 days. Which activity would you shorten to reduce the project duration by 5 days? Why?

3. You identify a risk in your project that has a 60% probability of occurrence with an impact of 250.000 EUR. The risk mitigation plan costs 50.000 EUR and reduces the probability to 30% and impact to 150.000 EUR. The risk transfer plan costs 150.000 EUR and eliminates the risk (0% probability). What risk management strategy do you take? Explain.

You have a project to be completed in 8 months, and the total cost of the project is 200,000 EUR. Four months have passed and 120,000 EUR has been spent, but on closer review you find that only 40% of the work is completed so far. What is the Estimate at Completion (EAC) considering that the performance dex is not appliable to the rest the project?

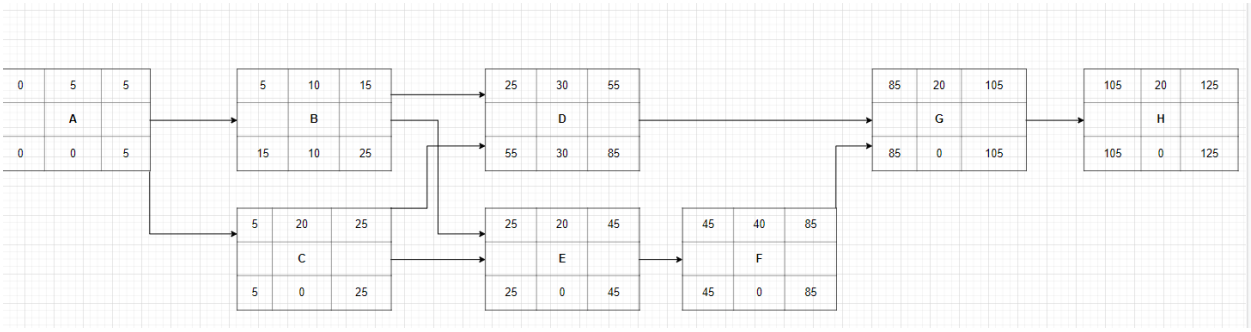
1) Thesis WBS – structured by phases

1. Semantic segmentation on video sequences
   - 1.1. Initiation
     - 1.1.1. Find diploma advisor
   - 1.2. Planning
     - 1.2.1. Establish project scope
     - 1.2.2. Create the project plan
   - 1.3. Research
     - 1.3.1. Research segmentation methods
     - 1.3.2. Research datasets
     - 1.3.3. Research possible implementation frameworks
   - 1.4. Design
     - 1.4.1. Design the segmentation module
     - 1.4.2. Design the data loading module
     - 1.4.3. Design the training module
     - 1.4.4. Design evaluation module
   - 1.5. Implementation
     - 1.5.1. Implement the data loading module
     - 1.5.2. Implement the segmentation module
     - 1.5.3. Implement the training module
     - 1.5.4. Implement the evaluation module
   - 1.6. Training and Evaluation

1.6.1. Train the network
1.6.2. Evaluate the network
1.6.3. Compare with state of the art

1.7. Documentation
1.7.1. Write the license thesis
1.7.2. Write user manual

1.8. Closeout
1.8.1. Get approval from supervisor
1.8.2. Hand over project files

2) 

Critical path: A C E F G H
reduce duration of F, since it is on critical path

3) Risk 60% proc occurrence, impact 250 000 => exposure 150000
Mitigation: 50000 + 30/100 * 150000 = 95000
Transfer: 150000
Choose mitigation

4) BAC 200000
AC 120000
EV 40/100 * 200000 = 80000
EAC perf not applicable: AC + BAC – EV = 240000