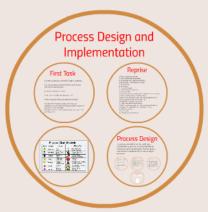
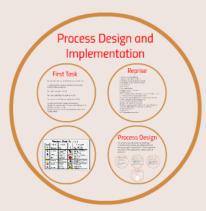
CET310 Software Enterprise Week 9





CET310 Software Enterprise Week 9





Process Design and **Implementation**

First Task

You must design test and build 15 paper aeroplanes.

The planes when completed will have to fly 25 feet without hitting the ground.

Each piece of paper costs £1

Each successful flight will gain you to £5

Each unsuccessful flight you will penalised £10.

You have 30 minutes to design and test your aeroplanes, once that time is up you must have your 15 aeroplanes ready for flight.

Any planes that are not completed will also have a £10

Reprise

- 2. How could we do things better
- 3. What would you implement next time
- 4. Something's they should have asked,
- 6, more time.
- 7. less specification.
- 8. reduced costs on materials,
- 9. picked a leader
- 10. Let everyone make a plane then test it to see which is best,
- 11. then make the plane exactly the same,
- 12. pick one or two people who can consists
- planes accurately to get the best results, 13. Could we have stood on a chair
- 14. What were all the specifications
- 15. Start the process again with the learning technique we have learnt (This will take another 30-40 minutes)
- 16. Map out a process
- 18. Change your process flow

Process Chart Symbols Convey, Fork Truck, OTR Truck Check For Defects Visual Inspect, Dimension Inspect emporary elay/Hold 0

Process Design

The process described can be anything: a manufacturing process, an administrative or service process, a project plan. This is a generic tool that can be adapted for a wide variety of







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Reprise

- 1. What did you find difficult
- 2. How could we do things better
- 3. What would you implement next time
- 4. Something's they should have asked,
- 5. more money,
- 6. more time,
- 7. less specification,
- 8. reduced costs on materials,
- 9. picked a leader,
- 10. Let everyone make a plane then test it to see which is best,
- 11. then make the plane exactly the same,
- 12. pick one or two people who can consistently throw the planes accurately to get the best results,
- 13. Could we have stood on a chair
- 14. What were all the specifications
- 15. Start the process again with the learning technique we have learnt (This will take another 30-40 minutes)
- 16. Map out a process
- 17. See results
- 18. Change your process flow

Process Design

The process described can be anything: a manufacturing process, an administrative or service process, a project plan. This is a generic tool that can be adapted for a wide variety of purposes.

When to Use a Flowchart

To develop understanding of how a process is done.

To study a process for improvement.

To communicate to others how a process is done.

When better communication is needed between people involved with the same process.

To document a process.

When planning a project.

Flowchart Basic Procedure

Materials newded; sticky notes or cards, a large piece of flipchart paper or newsprint, marking pena.

1. Define the process to be diagrammed. Write its title at the top of the

 Discuss and decide on the boundaries of your process: Where or when does the process start? Where or when does it end? Discuss and decide on the level of detail to be included in the diagram.

 Brainstorm the activities that take place. Write each on a card or stick note. Sequence is not important at this point, although thinking in sequence may help people remember all the steps.
 Arrange the activities in proper sequence.

 when all activities are incubed and everyone agrees that the sequence is conrect, draw arrows to show the flow of the process.
 Review the flowchart with others involved in the process (workers,

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Flowchart Considerations

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nowchart detween won's sessions and outsing their receback. Do not assign a Technical expert to draw the flowchart, People who actually perform the process should do!!. Computer software is available for drawing flowcharts. Software is useful for drawing a meet final diagram, but the method given here works better for the messy initial stages of creating the flowchart.

Examples



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- 5. When all activities are included and everyone agrees that the sequence is correct, draw arrows to show the flow of the process.
- 6. Review the flowchart with others involved in the process (workers, supervisors, suppliers, customers) to see if they agree that the process is drawn accurately.

Flowchart Considerations

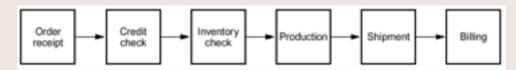
Don't worry too much about drawing the flowchart the "right way." The right way is the way that helps those involved understand the process.

Identify and involve in the flowcharting process all key people involved with the process. This includes those who do the work in the process: suppliers, customers and supervisors. Involve them in the actual flowcharting sessions by interviewing them before the sessions and/or by showing them the developing flowchart between work sessions and obtaining their feedback. Do not assign a "technical expert" to draw the flowchart. People who actually perform the process should do it.

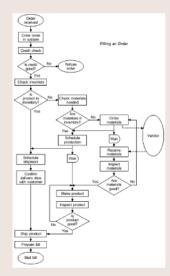
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Examples

High-Level Flowchart for an Order-Filling Process

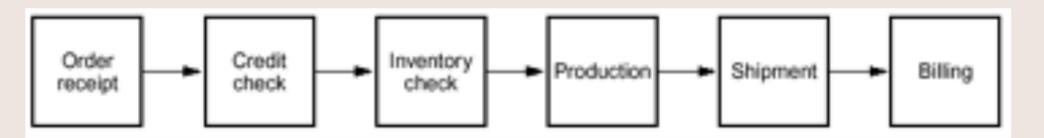


Detailed Process Flowchart



Examples

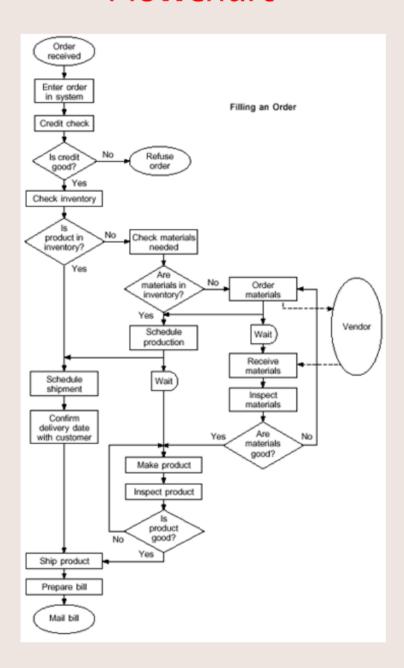
High-Level Flowchart for an Order-Filling Process



Detailed Process Flowchart



Detailed Process Flowchart



Process Chart Symbols

Sym	Name	Action		Examples
•	Operation	Adds Value	a	Saw, Cut, Paint Solder, Package
	Transport	Moves Some Distance	B	Convey, Fork Truck, OTR Truck
	Inspect	Check For Defects	P	Visual Inspect, Dimension Inspect
Þ	Delay	Temporary Delay/Hold	STOP	WIP Hold, Queue
∇	Storage	Formal Warehousing	蠱	Warehouse or Tracked Storage Location
•	Handle	Transfer Or Sort	H	Re-Package, Transfer To Conveyor
	Decide	Make A Decision	×	Approve/Deny Purchase

Activities

Agile

Hold your weekly planning meeting You should rotate the role of scrum master and have someone take notes of what is discussed.

You may elect a product owner if you wish - someone who feels ownership of the product

Review last weeks activity - where all the actions were completed?

Decide on the direction your enterprise will take for the next week

and decide what the team members will do in the next week.

Your meeting records should be submitted as supporting documentation (in mohara) for your portfolio

You should try and meet up at least once before next week's session

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