# Cheatography

# **Project Planning Cheat Sheet** by Natalie Moore (NatalieMoore) via cheatography.com/19119/cs/5990/

#### Prior to planning

Business Case should be set out. Outlines how projects benefits outweigh costs

Project objectives should be ID'd and agreed. Objectives define successful project outcomes

#### Activity planning

Work out activity order. Draw up an activity network diagram. There are two ways:

1. Activity on node used in this cheatsheet

- Activities are represented on nodes
- Used by most PM tools inc MS Project

#### 2. Activity on arrow

Activities are represented by arrow \_

#### Identifying Milestones

Events which do not take up time or energy.

#### Estimating elapsed time

- Estimate how long each activity will take
- Add these to the nodes in your diagram
- If task finishes on day 4, the next task \_ should start on day 5
- Float is leeway time between activities

#### Critical path (CP)

Chain of activities from beginning to end with no float. A CP activity delayed then project delayed. Activity span = total period during which the activity has to take place

ES = Earliest start, EF = Earliest finish, LS = Latest start, LF = Latest finish



#### **Useful equations**

- Earliest finish = earliest start + duration
- Latest start = latest finish duration
- Latest finish = earliest of 'latest start'
- activities dependent on the activity

Float = latest finish - earliest start - duration

Activity span = latest finish - earliest start

#### Product based planning

1. ID project deliverables: project outputs delivered to client. Tangible.

2. ID intermediate products: created during project, but not delivered to client.

3. List deliverables or display them in a work breakdown structure

- 4. Produce definitions for stakeholders
- ID or name of the product \_
- Description
- Product/s that need to exist before this one, those it is derived from
- Components that make up the product
- Quality criteria which explain how product will be judged as satisfactory

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#### Activity on node example



Each node then given information in image 'Layout of an activity node'

#### **Resource allocation**

Resources = raw materials, staff & equip For each activity ID the resource type needed

For HR identify role to carry out the task

On activity network diagram for each node note resources needed

#### Problems you may encounter

Not enough staff available - resource clash

- Use the float to delay until staff available
- Delay start even though float used up. Will delay completion
- Buy in staff to cover deficiency. ^ cost
- Split into sub activities to spread evenly
- Need to keep workflow steady

## Put into a form that everyone will understand e.g. Gantt chart

- Activities left hand side
- Calendar units along the top
- \_ Block symbols used to show when activities will be taken out
- Free float shown in light blocks
- Arrows show dependencies

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## Work / activity based planning

Very similar to 'Product based planning' but replace the products with activities

## Product flow diagram (PFD)

#### Part of the Product approach

Visual representation of order in which a sequence of products is created according to product based planning principles

Should contain all of the products of the Product Breakdown Structure (equivalent to a Work Breakdown Structure) - the PFD should be kept simple

Flows top to bottom and left to right

Looping back is not allowed

#### Product flow diagram (PFD) - Example



## The activity span



# Layout of an activity node





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