

# **Project Planning Cheat Sheet**

by Natalie Moore (Natalie Moore) 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

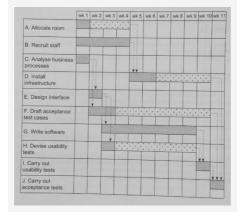
- Estimate how long each activity will take
- Add these to the nodes in your diagram
- If task finishes on day 4, the next task should start on day 5
- Float is leeway time between activities

#### 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

#### **Gantt Chart Example**



#### **Useful equations**

Earliest finish = earliest start + duration

Latest start = latest finish - duration

Latest finish = earliest of 'latest start' activities dependent on the activity

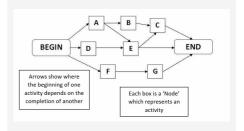
Float = latest finish – earliest start – duration

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

#### 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

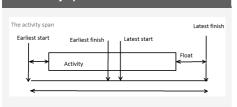
Flows top to bottom and left to right

Looping back is not allowed

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



# The activity span



# Layout of an activity node





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