Project Management Exam Concept Review

Concepts You'll Need to Know

- Software development life cycle
- Kanban vs. Scrum
- Kanban boards & swim lanes
- Definition of project management
- Role of the project managers
- Project manager software
- Waterfall
- Critical paths and GANTT charts

Software Development Life Cycle

Software Development Lifecycle (SLDC)

- Analysis
- Design
- Implementation
- Testing
- Deployment

Analysis

- Figure out what you need
- Gather requirements
- Consult everyone who has stake in the project
  - Management
  - Customer
  - Subject matter experts

Design

- What do you do to meet those requirements?
- Plan out your project

Implementation

- Do your project
- Requires the most people
- Is the most complex
- Is the most subject to delays

Testing

- Did you did a good job?
- Does everything work?
- Does it meet the requirements?
- Is the customer satisfied?
- Find and fix all the bugs / issues

Deployment

- Prepare for launch
- Put the results of your project into action

What is Project Management?

- The application of knowledge, skills, tools, and techniques to produce activities to meet the project requirements

What does a Program Manager Do?

Program Manager

- Oversee multiple large projects

Project Manager

- Oversees one project

What Does a Project Manager Do?

- Resources – time and cost
- Scope
- Communication

Product vs. Sprint Backlog

Product

- All known tickets
- Wishlist
- Goes beyond the sprint

Sprint

- Only what you can tackle in the sprint
- Pull from the product backlog to fill

Project Management Software

- Jira – Gold standard for Scrum
- Team Foundation (TFS) – like Jira, but less widely used and integrated with Microsoft
- Trello – Scrum, to-do lists, etc.
- Liquid Planner – Waterfall
- Microsoft Project - Waterfall

Waterfall Project Management

- Specific start and end dates
- Long-term planning
- Less adaptable / flexible

Stages of Waterfall Methodology

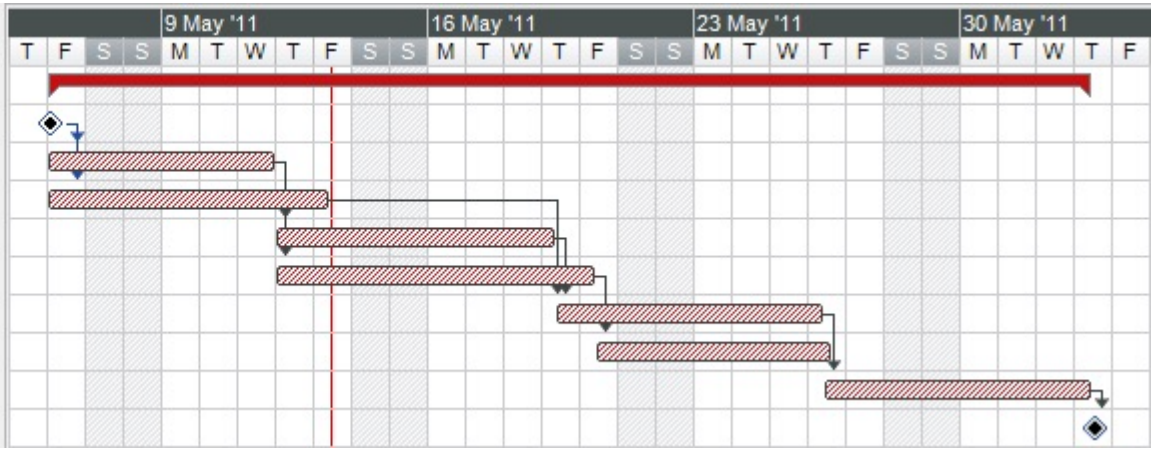
- Requirements
- Design
- Implementation
- Verification
- Maintenance

GANTT Charts

- Shows the workflow for a project

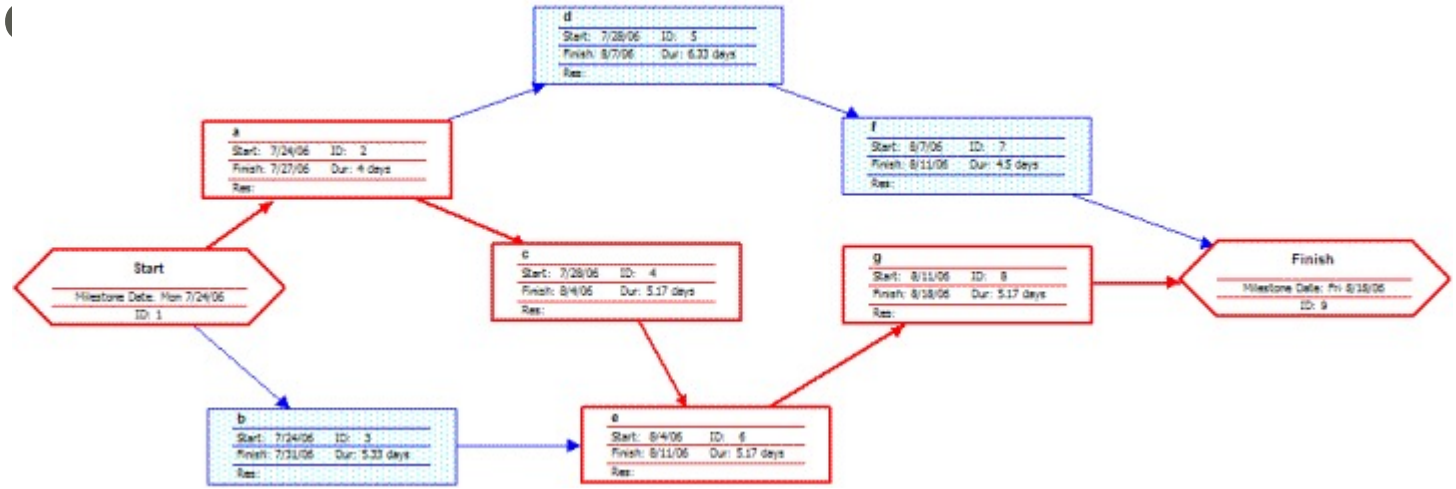
- What can be done at the same time?
- What must be done before the next task takes place?
- How long will each task take?

	Task Name	Duration	Start
1	**Project**	**19.47 days**	**5/6/2011**
2	Start	0 day	5/6/2011
3	Task A	4 days	5/6/2011
4	Task B	5.3 days	5/6/2011
5	Task C	5.15 days	5/12/2011
6	Task D	6.32 days	5/12/2011
7	Task E	5.15 days	5/19/2011
8	Task F	4.5 days	5/20/2011
9	Task G	5.15 days	5/26/2011
10	Finish	0 day	6/2/2011



Critical Path

- Part of a GANTT chart
- The series of tasks that takes you to final delivery
- You are looking for the longest pathway – because that limits the workfl



Questions?