

Project Management Advanced Diploma



Computers & PM – Josephine Coffey

Computers & PM - Week 3

- Overview of Computers & Project Management
- Guidelines for Procuring PM Software
- Project Management using MS Office applications

Computers & PM - Josephine Coffey

Introduction to Computers & PM

- Role of Software in PM:
 - ➤ All types of Projects throughout project lifecycle
 - ➤ PM software: tools that store, process and output project data
 - ➤ Complexity varies simple calendars to PPM suites
 - ➤ Software\Tools developed specifically for PM profession

History of Computers & PM

1900 - 1949

- Pioneers recognised repetitive nature in work. Japanese concept of "kaizen" or continuous improvement.
- Gantt chart introduced by Henry Gantt
- Some early critical path network analysis 1950 1969
- PM emerged as a specific discipline
- Mainframe computers can run PM software
- Critical path network analysis exploited

History of Computers & PM

70s

- · Workers right
- PM science further developed and professional associations created
- More PM software available

ደበና

- Personal computers to run PM software
- Precedence network diagrams become the norm
- Much quicker to create and update schedules

History of Computers & PM

90s

- MS Project for Windows released
- · Project risk analysis
- Communication & Collaboration
- PM applied to all industries
- Programme and Portfolio Management

History of Computers & PM

2000 +

- MS Project sill dominant
- · PM Certification and Training
- Web based PM tools
- · Agile PM methodology evolving
- Cloud Computing

Project, programme and portfolio

- · Definition of project
- Wide choice of tools for single project management
- Related projects managed in Programme
- Mature organisations manage a Portfolio of projects using PPM software
 - Project Portfolio Management (PPM)

Benefits of PM software

- Single app to manage timelines and calendars
- Management of tasks
- Budgeting information
- Team members can access all task lists
- Reports

Benefits of PM software

- Planned vs. Actual
- Single tool to manage and track progress
- "What if" scenarios capability
- · Integrated functionality

Downfalls of PM software

- Too Complicated
- Expensive
- Not suitable
- Over reliance by PM

Common features of PM Tools

- Gantt Charts
- Work or Product Breakdown Structures
- Critical Path Diagrams
- Resource allocation
- Organisation Structure
- Cost loading
- Network diagrams
- Budget Tracking / Cash Flow

Common components of Project Management Tools

- Risk logs
- Issue logs
- 'Baselining'

Software Tools

Stand alone\small projects

- MS Office (~€550 single user, Server €5,500 + €180 per user)
- Project in a box (free)
- · OpenProj (free)

Web based

- Clarizen (subscription)
- Basecamp (subscription)
- LiquidPlanner (subscription)
- GanttProject (free)

Software Tools

Portfolio Project Management

- MS Project & Portfolio Management (€1500+)
- Oracle Primavera (€2k)
- HP Project & Portfolio Management
- IBM Rational Project Manager (€2k)
- Project .net (web)

Summary

- Most projects use computers in PM
- Many benefits for Project, Programme and Portfolio management
- The more complex the project the more likely to use specialised PM software
- Huge choice of software available