



Cost Estimating & Project Control



For ACES members only



Overview

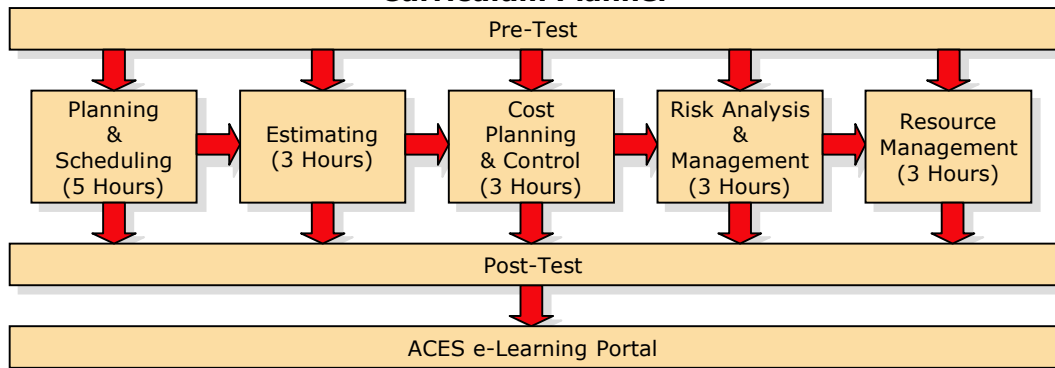
A variety of organisations are now turning to the well established tools and techniques of project management to plan and control their projects more effectively. The abundance of project management software has significantly reduced much of the burden associated with managing projects.

In order to gain the maximum benefit from whatever project management software is used, it is essential to be able to understand and use the tools and techniques of project management.

On completion of the suite of Project courses, the user will have a thorough understanding of all the areas listed within the planner and their practical application.



Curriculum Planner



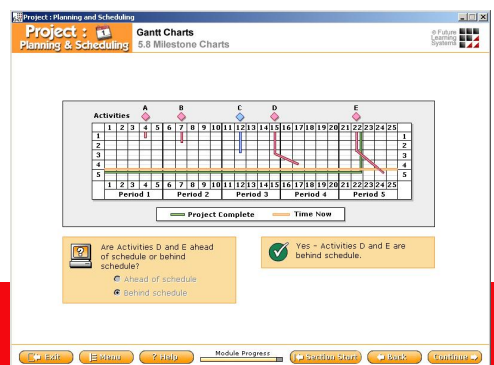
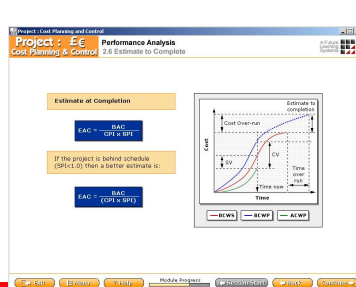
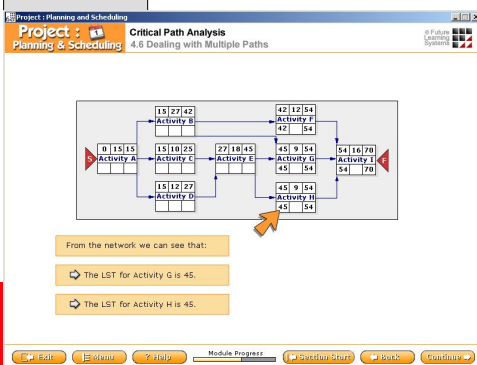
Through the extensive use of graphics and interactive exercises, these well presented products are both enjoyable and effective.

Benefits of e-Learning

- The training can be delivered at any time and at any location that is required.
- The training is easily integrated with existing education programmes & work experience.
- The modules offer an ongoing source of reference and refresher training.

Target Audience

Using examples from many different industries and types of project, the products are appropriate for all project and aspiring project staff in any organisation that is involved in project based work.





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Module Listing

e-Learning Curriculum

Planning & Scheduling	What is Project Management?	What is a project?; successful & unsuccessful projects; objective setting.
	Work Definition	Work Breakdown Structures; Product Breakdown Structures; WBS code design; Responsibility matrix; Organisation Breakdown Structures; Cost Breakdown Structures.
	Creating a Project Network	Critical path analysis; activity nodes; predecessors & successors; activity inter-relationships; lead & lag times; project activity tables; developing a project network.
	Critical Path Analysis	Forward & backward pass; dealing with lead & lag times; Float; the critical path(s); dealing with more complex inter-relationships.
	Gantt Charts	Layout of a Gantt chart; recording progress; creating a Gantt chart; dealing with holidays; Linked charts; Cascade charts; Milestone charts.
Estimating	Preliminary Estimating	Functional estimates; cost per unit estimates; parametric estimates; factor estimates; range estimates; P.E.R.T.; preparing preliminary time and cost estimates.
	Preparing an Estimate	Direct costs; indirect costs; OBS – WBS matrix; spreadsheets; inflation; escalation; bidding.
Cost Planning & Control	Principles of Cost Control	Cost reporting; cost control; preparing an 'S' Curve; Budgeted Cost of Work Scheduled (BCWS); Actual Cost of Work Performed (ACWP); Budgeted Cost of Work Performed (BCWP).
	Performance Analysis	Milestone analysis; Cost Variance; Schedule Variance; Cost Performance Index; Schedule Performance Index; Estimate to Complete; Earned Value Analysis.
Risk Analysis & Management	Risk Planning	What is a risk?; the process of risk management; risk identification; risk estimation; risk evaluation; risk management; risk responses; applying risk management.
	Risk Techniques	Checklists; Likelihood / Impact grids; Cause and Effect analysis; Monte-Carlo analysis.
Resource Management	Resources & Activities	The transformational model; transformed & transforming resources; the starting point; defining activities & resources; the law of diminishing returns; activity costs direct & indirect.
	Resource Levelling	Resource utilisation; an ideal resource profile; the cycle of despair; the process of resource levelling; compressing and stretching; activity splitting.

For further information please contact:
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