

TS 6J – Project Management Open Session

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“Learning is Involvement”

An Introduction to Project Management (PM) for FIG

- **Definition – A Project is a temporary one-off exercise to create a unique product or service.**
 - N.B. Not a process creating the same product or service repeatedly
- **All members of FIG have Projects**

Project Management (cont)

- Products range ~ modest house extensions - multi-billion \$ HK
- Services range ~ modest land survey - multi billion \$ flotation
- All projects need managing to ensure:-
 - delivery of defined scope
 - quality, time and cost

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Project Management (cont)

- Project Managers
 - reduce risk, over-see cost, time and quality
 - use various management techniques.
- All FIG managers providing a unique product or service must control Finance, time and human resources.

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Project Management (cont)

- These skills are required for managers of Surveying Companies & Universities not just construction, engineering and defence.
- Management of pyramids must have used similar techniques.

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Project Management (cont)

- PM techniques started in the 1950's and most surveyors recognise
 - Critical Path (CPM) planning
- PM Methods & Tools now Extended
 - Germany - "DIN 69901" standard
 - UK "Prince2" - OGC generic PM Method.
 - US CoE uses Project Management Information System P2

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Project Management (cont)

- All methods have similar stages employing different tools
 - Project Initiation
 - Project Planning
 - Project Execution
 - Project Monitoring
 - Project Completion

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Project Management (cont)

- Project Initiation
 - Identification of Opportunity
 - Definition of the problem
 - Concept
 - Analysis & Design of Objectives
 - Feasibility

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Project Management (cont)

- Project Planning
 - Business Case
 - Estimated resources
 - Success Criteria
 - Risk Management
 - Design
 - Modelling
 - Procurement

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Project Management (cont)

- Project Execution
 - Implementation
 - Direction
 - Production
 - Make & Build

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Project Management (cont)

- Project Monitoring
 - Controls
 - Forecasts
 - Tracking & Reporting
 - Test & Analysis
 - Commissioning
 - Quality Management
 - Change Management

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Project Management (cont)

- Project Completion
 - Hand-over
 - Operation & Maintenance
 - Defects Prevention
 - De-commission resources
 - Follow on actions
 - Evaluation

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Project Management Summary

- Project Management skills are used by all FIG members
- Many projects worldwide do not come in on time or cost or quality
- About 50% of corporate global projects ~ new products, large computer systems and mergers **FAIL.**

Project Management Summary

- PM builds on skills used by successful projects and reduces the Risk of failure.
- Tools and techniques employ best practice to support the manager to:-
 - Focus on the right project
 - At the right time
 - For the right reasons
 - At the right Cost

PM - Questions Arising ?

- Is the Concept of PM understood?
- Do members of FIG use these techniques?
- Do members of FIG see benefit from the use of Project Management and Planning techniques?
- How can these techniques be more widely encouraged within FIG and by FIG members? Is this the real challenge?