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IT Project Consultant

9 Knowledge Areas

Integration, Scope, Time, Cost, Quality, HR, Communication, Procurement, Risk

5 Process Groups

Initiation, Planning, Execution, Controlling & Monitoring, Closing

42 Processes

Each process has Input, Tools & Technique and Output

Project Baseline

Scope baseline, Schedule Baseline, Cost Baseline

KSF (Key Success Factor)

Time, Cost, Quality

Integration Management	
Develop Project Charter	Initiation
Develop Project Management Plan	Planning
Direct and Manage Project Execution	Execution
Monitor and Control Project Work	M&C
Perform Integrate Change Control	M&C
Close Project or Phase	Closing
Scope Management	
Collect Requirement	Planning
Interviewing	
Focus Group	
Facilitated Workshop	
Delphi	
Brainstorming	
Nominal Group	
Mind Map	
Affinity Diagrams	
Questionnaires and Surveys	
Observation	
Prototypes	
Requirement Traceability Matrix	
Define Scope	Planning
Project Scope Statement	
Create WBS	Planning
Work Package (4 to 40 hours long)	
Control Account (Cost Estimation as higher level)	
WBS Dictionary	
Control Scope	M&C
Verify Scope	M&C
Time Management	
Define Activities	Planning
Decompose WBS	
Sequence Activities	Planning

Dependency:	
Mandatory	
Discretionary	
External	
Relationships:	
Finish-to-start	
Start-to-start	
Finish-to-finish	
Lead (start before preceding activity finished)	
Lag (wait after preceding activity finished)	
Estimate Activity Resource	Planning
Resource Availability	
Estimate Activity Duration	Planning
Analogous	
Parametric	
PERT ((P + 4M + O) / 6)	
Contingency Reserve, Management Reserve	
Contingency Reserve, Management Reserve	
"Padding is not allowed"	
Develop Schedule	Planning
Critical Path Method	
ES-EF, LS-LF	
Total Float	
Free Float	
Schedule Compression	
Fast Tracking (parallel activity)	
Crashing (add resources/cost)	
Milestone Chart	
Gantt Chart	
Control Schedule	M&C
Cost Management	Mac
Estimated Cost	Planning
Rough Order of Magnitude (+/- 50%)	
Budget (-10 to +25%)	
Definitive (+/-10%)	
Analogous	
Parametric	
PERT ((P + 4M + O) / 6)	
Variable Cost/Fixed Cost	

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Direct Cost/Indirect Cost	
Determine Budget	Planning
Management Reserve	
+	
Cost Baseline	
+	
Contingency Reserve	
+	
Project Estimation	
Control Cost	M&C
EVM = Earned Value Management	
Cost Variance = EV - AC	
Schedule Variable = EV – PV	
Cost Performance Index = EV / AC	
Schedule Performance Index = EV / PV	
EAC = AC + (BAC – EV) = No variance	
EAC = AC + ((BAC – EV) / (CPI*SPI)) – variance	
Quality Management	·
Plan Quality	Planning
Joseph Juran: 80/20 Principle, top management involvement,	
fitness of use	
Edward Deming: Plan-Do-Check-Act	
Philip Crosby: prevention over inspection, zero defect	
Continuous Improvement (Keizen)	
Total Quality Management (TQM)	
Six Sigma	
Cost Benefit Analysis	
COQ	
Control Chart	
Benchmarking	
Design of experiments	
Statistical Sampling	
Flowchart	
Cause and Effect Diagram	
Perform Quality Assurance	Executing
Perform Quality Control	M&C
Control Chart	
Histogram	
Pareto Chart	
Cause and Effect (Ishikawa, Fishbone)	
Run Chart	
Scatter Diagram	

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Develop Human Resource	Planning
RACI chart	0
Staffing Management Plan (Where, When, How long, Training,	
Rewards, Compliance, Safety)	
Acquire Project Team	Execution
Preassignment	
Negotiation	
Virtual Team	
Halo Effect	
Develop Project Team	Execution
Forming	
Storming	
Norming	
Performing	
Adjourning	
Training	
Ground Rules	
Co-location	
Manage Project Team	Execution
Observation and Conversation	
Project Performance Appraisals	
Issue Log	
Powers	
Legitimate	
Reward	
Penalty	
Referent	
Expert	
Conflict Management	
Confronting	
Compromise	
Withdrawal	
Smoothing	
Forcing	
Collaborating	
Motivational Theory	
McGregor's Theory of X and Y	
Maslow's Hierarchy of Needs (Physiological, Safety, Social,	
Esteem, Self Actualization)	
McClelland's Theory of Needs (Need for Achievement, Need for	
Affiliation, Need for Power)	
Herzberg's Theory (Hygine Factors, Motivating Agents)	

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Communication Management	
Identify Stakeholders	Initiation
Stakeholder Analysis	
Stakeholder Register	
Stakeholder Management Strategy	
Plan Communication	Planning
Formal Written	
Formal Verbal	
Informal Written	
Informal Verbal	
Method:	
Interactive Communication	
Push Communication	
Pull Communication	
Communication Channel (N(N-1)/2)	
Distribute Information	Execution
When, What, Who, Whom, How	
Manage Stakeholder expectation	Execution
Report Performance	M&C
Status Report: where the project stands regarding the	
performance baseline	
Progress Report: What has been accomplished	
Trend Report: Project results over time to see performance	
Forecasting Report: predicted future project status and	
performance	
Variance Report: Variance report compares actual results to	
baseline	
Procurement Management	
Plan Procurement	Planning
Conduct Procurement	Execution
Administer Procurement	M&C
Close Procurement	Closing
Risk Management	
Plan Risk Management	Planning
Risk Categories, Source of Risk	
Identify Risk	Planning
Document Reviews	
Information Gathering	
SWOT Analyses	
Checklist Analyses	
Assumption Analyses	
Diagraming	
	Planning

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Risk Data Quality Assessment	
Risk Categorization	
Risk Assessment	
Perform Quantitative Risk Analysis	Planning
EMV (Expected Monetary Value Analysis)	
Monte Carlo Analysis	
Decision Tree	
Plan Risk Response	Planning
Threat (Avoid, Mitigate, Transfer, Accept)	
Opportunity (Exploit, Enhance, Share, Accept)	
Residual Risk	
Secondary Risk	
Monitor and Control Risk	M&C
Workarounds, Risk Reassessment, Risk Audits	
Other	
Organization Structure (Functional, Projectized, Matrix)	
Organization Assets	
Enterprise Environment	
PMO (Project Management Office)	
Lessons Learned	

Functional: Department by specialization and project within department Projectize: No home after project is done.

Matrix: Two bosses