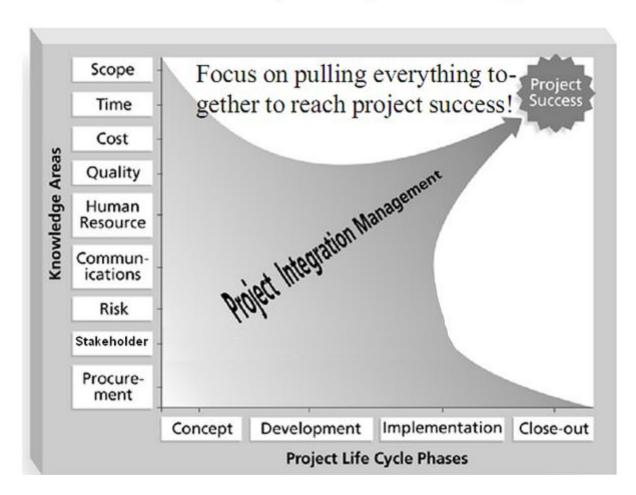
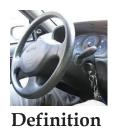
Project Integration Management



Framework for Project Integration Management



Project Integration Management





Processes and activities needed to <u>identify</u>, <u>define</u>, <u>combine</u>, <u>unify</u>, and <u>coordinate</u> the various processes and project management activities within the Project Management Process Groups

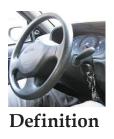
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Project Integration Management

- 1. Develop Project Charter [INITIATING]
- 2. Develop Project Management Plan [PLANNING]
- 3. Direct and Manage Project Execution [EXECUTING]
- 4. Monitor and Control Project Work [M&C]
- 5. Perform Integrated Change Control [M&C]
- 6. Close Project or Phase [CLOSING]



1. Develop Project Charter



Developing the project charter that formally authorizes a project or a project phase.



Develop Project Charter

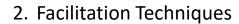




- 1. Project Statement of work
- 2. Business case
- 3. Agreements
- 4. Enterprise Environmental **Factors**
- 5. Organization Process **Assets**









1. Project Charter



Project Initiating

Project Charter Template

- 1. Project purpose or justification
- 2. Measurable project objectives and related success criteria
- 3. High Level Requirements
- 4. High Level Project description
- 5. High Level Risks
- 6. Summary milestone schedule
- 7. Summary Budget
- 8. Project approval requirements
- 9. Assigned project manager, responsibility, and authority level
- 10. Name and authority of the sponsor or other person(s) authorizing the project charter



Exercise-1



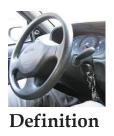


15 Minutes

Prepare Project Charter for your Project







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Documenting the actions necessary to define, prepare, integrate, and coordinate all subsidiary plans into a project management plan.

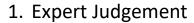
Develop Project Management Plan





- 1. Project Charter
- 2. Output from Other **Processes**
- 3. Enterprise Environmental **Factors**
- 4. Organization Process **Assets**









1. Project Management **Plan**

Project Planning

Exercise-2



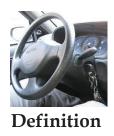


5 Minutes



Write name of all type of subsidiary plans for your **Project**







Performing the work defined in the project Management plan to achieve the project's objectives.

Direct and Manage Project Work



- 1. Project Management Plan
- 2. Approved Change **Requests**
- 3. Enterprise Environmental **Factors**
- 4. Organization Process **Assets**



- 1. Expert Judgement
- 2. Project Management **Information System**
- 3. Meetings



- 1. Deliverables
- 2. Work Performance **Data**
- 3. Change Requests
- 4. Project Management **Plan Updates**
- 5. Project Documents **Updates**

Project

Executive

Exercise-3



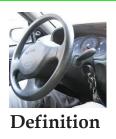


5 Minutes

Write name of Deliverables & Name of workperformance information for your Project

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4. Monitor & Control Project Work



Tracking, reviewing and regulating the progress to meet the performance objectives defined in the project management plan.



Monitor and Control Project Work



Project Integration

Management



- 1. Project Management Plan
- 2. Schedule forecasts
- 3. Cost forecasts
- 4. Validated Changes
- 5. Work Performance Information
- 6. Enterprise Environmental **Factors**
- 7. Organization Process **Assets**



- 1. Expert Judgement
- 2. Analytical techniques
- 3. Project Management **Information Systems**
- 4. Meetings



- 1. Change Requests
- 2. Work performance reports
- 3. Project Management **Plan Updates**
- 4. Project Documents **Updates**

Exercise-4



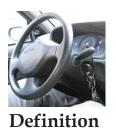


5 Minutes

Write type & name of a few change requests for your
 Project

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5. Perform Integrated Change Control



Reviewing all change requests, approving changes and managing changes to the deliverables, organizational process assets, project documents and the project management plan.

Perform Integrated Change Control



Project Integration Management



- 1. Project Management Plan
- 2. Work Performance Report
- 3. Change Requests
- 4. Enterprise Environmental **Factors**
- 5. Organization Process **Assets**





- 2. Meetings
- 3. Change Control Meetings



- 1. Approved Change Requests
- 2. Change log
- 3. Project Management **Plan Updates**
- 4. Project Documents **Updates**

Exercise-5





5 Minutes

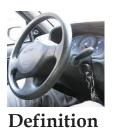
Write change management process for your Project
 OR



Prepare a format of change request report for your project

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6. Close Project or Phase



Finalizing all activities across all of the project Management Process Groups to formally close the project or a project phase



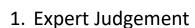
Close Project or Phase





- 1. Project Management Plan
- 2. Accepted Deliverables
- 3. Organization Process **Assets**





- 2. Analytical techniques
- 3. Meetings



- 1. Final product, service or result transition
- 2. Organization Process **Assets Updates**



Project Closing

Exercise-6





5 Minutes

 Write name of documents submitted to organization deliveries made to customer for your Project at the end of your project or project phase.



Discussions!

Project Scope Management



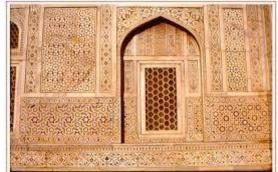
Level of Detailing in Scope









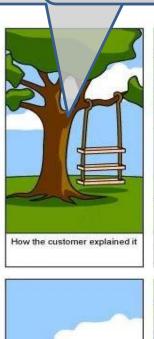


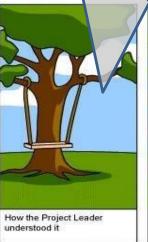




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How the custo How the Project LedHow the Allow the Business Consultant understood it explained it wrote it described it Designed it



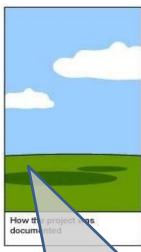




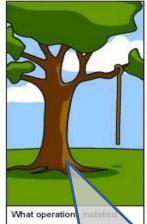




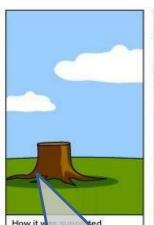
described it



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How it w

What the cus needed

How the projection How the customer was What the customer really documented

needed

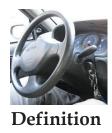
Scope

 Project Scope "The work that needs to be accomplished to deliver a product, service, or result with the specified features and functions."



Product Scope "The features and functions that characterize a product, service, or result."

Project Scope Management





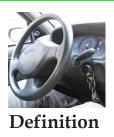
Processes required to ensure that the project includes all the work required, and ONLY the work required to complete the project successfully

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Project Scope Management

- 7. Plan Scope Management [PLANNING]
- 8. Collect Requirements [PLANNING]
- 9. Define Scope [PLANNING]
- 10. Create WBS [PLANNING]
- 11. Validate Scope [M&C]
- 12. Control Scope [M&C]

7. Plan Scope Management



Documenting how the project scope will be defined, validated and controlled

Plan Scope Management







- 2. Project Charter
- 3. Enterprise Environmental **Factors**
- 4. Organization Process **Assets**





2. Meetings



- 1. Scope Management Plan
- 2. Requirement Management Plan

Project Planning

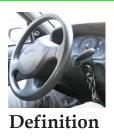
Plan Scope Management IO

- Scope Management Plan includes
 - Process for preparing project scope statement (PSS)
 - Process that enable creation of WBS from PSS
 - Process that specifies how formal acceptance be obtained
 - Process to control changes to details PSS
- Requirement Management Plan includes
 - Process of analyzing, documenting and managing requirements
 - Process of requirement prioritization
 - Product measurement metrics and their rationale
 - RTM structure
 - Configuration management activities related to product





8. Collect Requirements



Defining and documenting stakeholders' needs to meet the project objectives.



Collect Requirements





- 1. Scope Management Plan
- Requirement Management Plan
- 3. Stakeholder Management Plan
- 4. Project Charter
- 5. Stakeholder Register

- 1. Interviews
- 2. Focus Groups
- 3. Facilitated Workshops
- 4. Group Creativity Technique
- 5. Group Decision Making Techniques
- 6. Questionnaires and Surveys
- 7. Observations
- 8. Prototypes
- 9. Benchmarking
- 10.Context diagrams
- 11.Document Analysis



- 1. Requirements

 Documentation
- 2. Requirement Traceability Matrix

Project Planning

Collect Requirements

Focus groups

Guided by moderator, group's final opinion is taken

Facilitated workshops

Cross functional stakeholders. Settle their differences like JAD with developers

Group creativity techniques

Brain storming

Nominal group techniques: Brainstorming only on most voted

Delphi Techniques: Only selected experts answers. Who answered what

is not shared

Idea Mapping techniques: Individuals ideas mapped on single map

Affinity diagrams: Grouping and sorting of ideas for discussion

Group decision making techniques

Majority, Unanimity, Plurality, Dictatorship





Requirement Traceability Matrix

- Tracing Requirements to
 - Business needs, opportunities, goals & objectives
 - Project objectives
 - Project scope/WBS deliverables
 - Product design
 - product development
 - Test strategy and test scenarios
- Traces high-level requirements to more detailed requirements.

- Attributes in RTM can be
 - Unique identified
 - Textual description of requirement
 - Rationale for inclusion
 - Owner
 - Source
 - Priority
 - Version
 - Current Status (active, cancelled, differed, added, approved)
 - Date completed
 - Stability
 - Complexity
 - Acceptance Criteria

Requirement vs Scope

Scope and requirement are two different things.

- Requirements are only those, which are in scope!
- Requirements are driven from scope
- Boundaries are defined first (using SOW), requirements are collected next

Requirement must be measurable, testable, traceable, complete, consistent and acceptable to key stakeholders.

Requirement Documentation includes

- Business need or <u>opportunity to be seized</u>, describing the limitation of the current situation and why the project has been undertaken
- Business and project objectives for traceability
- <u>Functional requirements</u>, describing business process, information, and interaction with the product, as appropriate which can be documented textually in a requirements list, in models, or both
- <u>Non-functional requirements</u> like SLA, performance, safety, security, compliance, supportability, retention/purge
- Quality requirements
- Acceptance criteria
- **Business rules** stating the guiding principles
- <u>Impacts to other</u> organizational areas call centre, technology centre, sales force
- Impacts to other entities inside or outside the performing organization
- Support and training requirements
- Requirements <u>assumptions and constraints</u>

Discussion/Exercise-7





5 Minutes

How to collect, analyze, document, prioritize, manage req; how change should be initiated and impact analysis done; Tracking changes, configuration management activities, RTM structure

Write Requirement Management Plan for your projects **Vedawi** OR

Write Columns of RTM for your project

Definition

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Developing a detailed description of the project and product.

9. Define Scope



Define Scope



- 1. Scope Management Plan
- 2. Project Charter
- 3. Requirements Documentation
- 4. Organization Process **Assets**



- 1. Expert Judgement
- 2. Product Analysis
- 3. Alternatives Identification
- 4. Facilitated Workshops



- 1. Project Scope Statement
- 2. Project Documents **Updates**

Project Planning

Define Scope

- Product Analysis
 - Product breakdown
 - System analysis
 - Requirement analysis
 - System engineering: Deals with multiple complex systems
 - Value engineering: Functions, value, cost
 - Retain the function & value and reduce the cost
 - Value analysis: Debate the function and its cost
 - Discuss the value of function vs the cost
- Alternative Identification
 - Alternative way of doing work



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Scope Statement

Scope statement has following sections

- Product Scope Description
- Product Acceptance Criteria
- Project Deliverables
- Project Exclusions
- Project Constraints (budget, imposed date, scheduled milestones, contractual provisions)
- Project Assumptions
- Organizational policies
- Available skilled resources

Discussion/Exercise 8





5 Minutes

Product Scope Description, Product Acceptance Criteria, Project Deliverables

Project Exclusions, Project Constraints (budget, imposed date, scheduled milestones, contractual provisions), Project Assumptions, Organizational policies, Available skilled resources



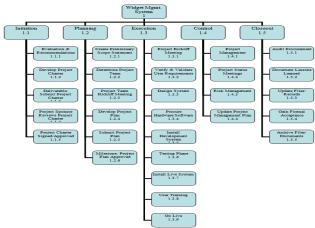
Write Project Scope Statement for your project

Definition



Subdividing project deliverables and project work into smaller, more manageable components.

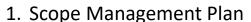
10. Create WBS



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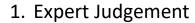
Create WBS





- 2. Project Scope Statement
- 3. Requirements Documentation
- 4. Enterprise Environmental Factors
- 5. Organization Process Assets





2. Decomposition



- 1. Scope Baseline
- 2. Project Documents Updates



Project Planning

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Scope baseline

Scope baseline is part of PMP, Scope baseline includes

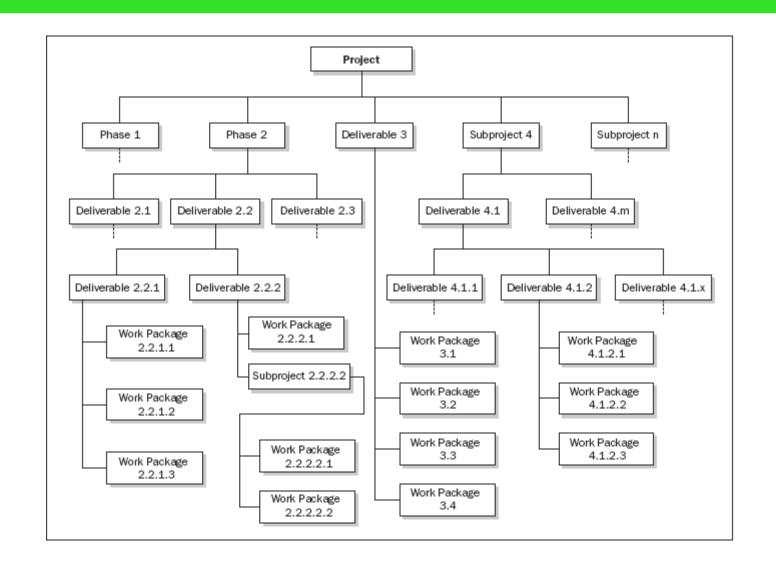
- Project Scope Statements
- WBS
- WBS Dictionary

WBS Types

- Phase Driven
- Department Driven
- Milestone Driven
- Component Driven
- Location Driven
- •

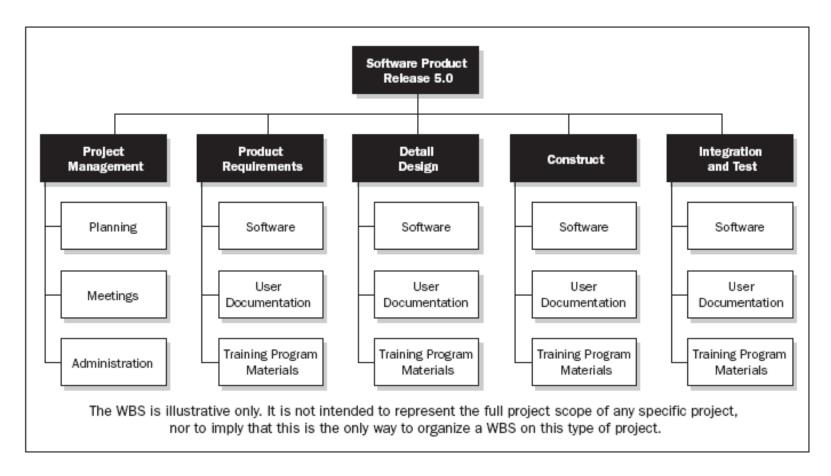
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Phase oriented WBS

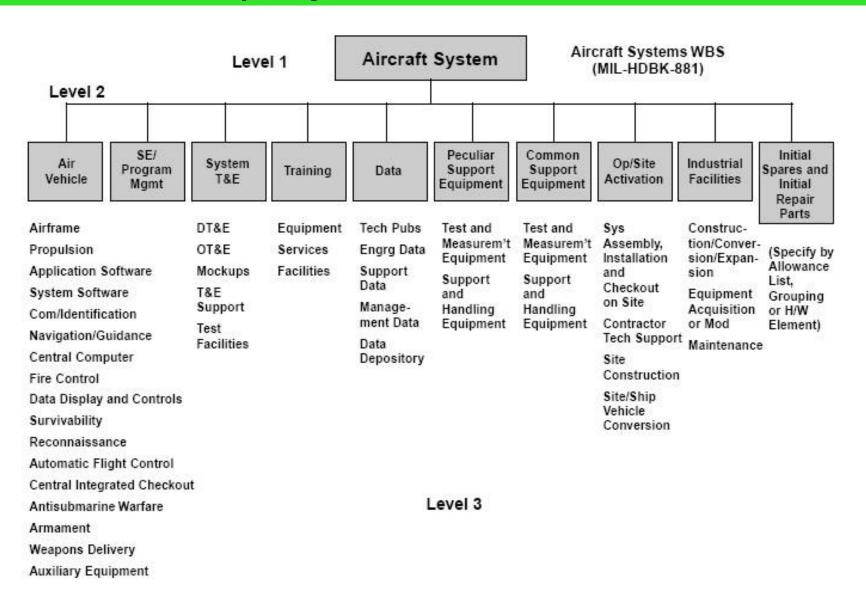


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Department oriented WBS



Subproject Oriented WBS



Discussion/Exercise 9



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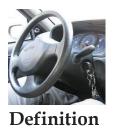


5 Minutes

Write 2 Level WBS & WBS Dictionary with min 5 deliverables for your project

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11. Validate Scope



Formalizing acceptance of the completed project deliverables.



Validate Scope



Project Scope

Management



- 1. Project Management Plan
- 2. Requirements Documentation
- 3. Requirement Traceability Matrix
- 4. Validated deliverables
- 5. Work Performance Data





2. Group Decision Making Techniques



- 1. Accepted Deliverables
- 2. Change Requests
- 3. Work Performance Information
- 4. Project Documents **Updates**

Discussion/Exercise 10



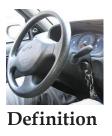


5 Minutes

• Write verify scope activities for your project; also write the name of deliverables verified.

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12. Control Scope



Monitoring the status of the project and product scope and managing changes to the scope baseline.



Control Scope



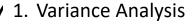
Project Scope

Management



- 1. Project Management Plan
- 2. Requirements Documentation
- 3. Requirement Traceability Matrix
- 4. Work Performance Data
- 5. Organization Process **Assets**







- 1. Work Performance Information
- 2. Change Requests
- 3. Project Management **Plan Updates**
- 4. Project Documents **Updates**
- 5. Organization Process **Assets Updates**

Discussion/Exercise-11





5 Minutes

 Write work performance measurement metrics and their values for your project



Discussions!