



PMP® EXAM PREP
PMI Authorized
Training Partner
BOOTCAMP
Session 2

Class times:
1:00 pm - 5:00 pm EDT
12:00 am - 4:00 pm CDT
11:00 am - 3:00 pm MDT
10:00 am - 2:00 pm PDT

Attendance Tracking Alert
Please log into Zoom with your correct first and last name.
Enter the same information for every session.

This course will assist learners in preparing for PMI's PMP Exam
(2021 Update)

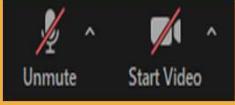
Instructor:
Susan Daniels,
MBA, PMP, DASSM, ATP-I

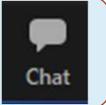
 This webinar will be recorded for quality purposes

Participant cameras and microphones are disabled

1

We are saving everyone's bandwidth usage by disabling cameras and microphones



Find the Chat option in your Zoom command bar 

Change the To: choice in the blue box to everyone. 

Explore the Reactions option in your Zoom command bar 
This is a fun way to provide quick and easy feedback

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Q&A vs Chat Feature



Use Q&A to ask for

- Technical assistance
- Guidance on how to access course material – Percipio Y or N?
- Clarification on lecture points, if not answered by instructor
 - Please avoid asking for consulting services that are aligned to a highly specific situation.



Use Chat to

- Respond to instructor's questions
- Share examples of tools and techniques discussed
- Ask questions to clarify a concept, term or technique
- Instructor and Mentors will use ** NAME** when responding

**Please be very patient,
Mentors respond to hundreds of inquiries per session.**

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IS Live ATTENDANCE REQUIRED?

- YES, if you are taking this training to register for the PMP exam live attendance is required. However, this is the exception rule for the 8 Day Bootcamp – You are allowed to miss up to two sessions if you make up the sessions by watching their replays.
- If you miss more than 15 mins at any time beyond the two sessions allowed, you will need to make it up by attending the live session in a different 8-day cohort*.

*Please see the Bootcamp calendar at <http://calendar.skillsoft.com/> for information about upcoming sessions.



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IN CASE OF ABSENCE

You can request a replay for a previous session by asking in the Q&A or for a past/current session by emailing the Mentoring Team 48 hours after the session ends using the email address mentoring@skillsoft.com

Please indicate the following in your request:

- The Bootcamp Cohort you are attending
- The Session Number
- The Date and Time Attended in New York Time Zone
- Example:

PMP ATP Bootcamp: 8 Day NA Cohort June/July/August 2022 Cohort
Session 7 Recording
Aug 2, 2022, 1:00 PM New York Time

REPLAY LIMIT:

There is no limit to request a replay for study purposes.

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Class Schedule

	Example for Eastern Time
1 st hour Presentation	1:00-2:00
1 st Break	2:00-2:10
2 nd hour Presentation	2:10-3:00
2 nd Break	3:00-3:10
3 rd hour Presentation	3:10-4:00
3 rd Break	4:00-4:10
4 th hour Presentation	4:10-5:00

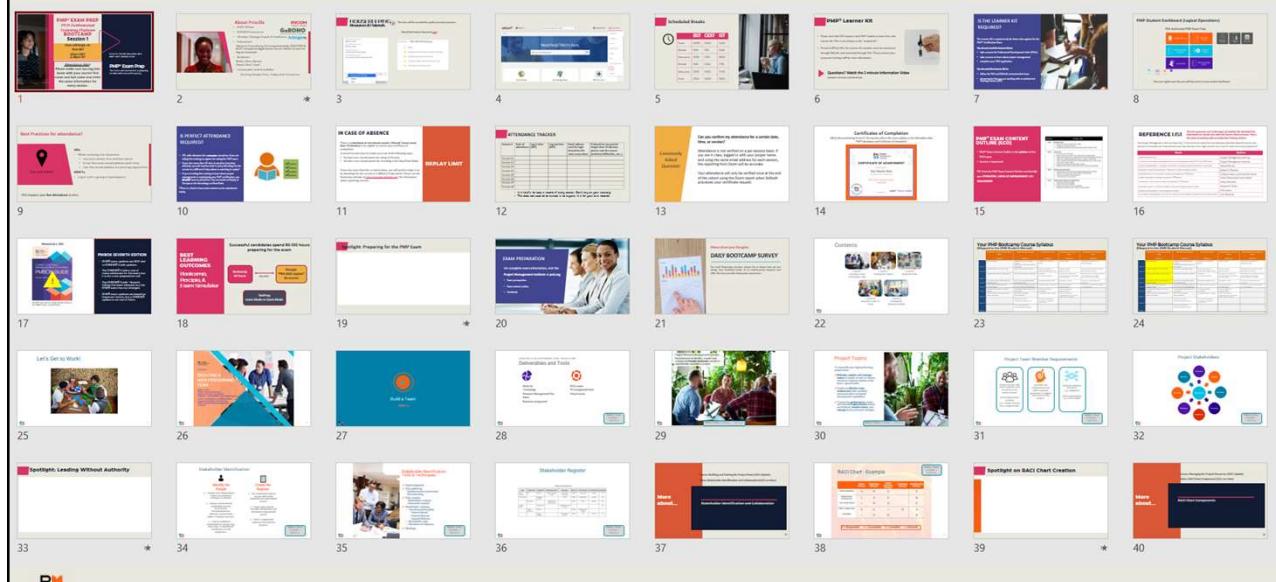
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Your PMP Bootcamp Course Syllabus (Mapped to the PMP Student Manual)

	Creating a High-Performing Team Lesson 1	Starting the Project Lesson 2	Doing the Work Lesson 3	Keeping the Team on Track Lesson 4	Keeping the Business in Mind Lesson 5
Topic A	Build a Team	Determine Appropriate Project Methodology/Methods and Practices	Assess and Manage Risks	Lead a Team	Manage Compliance Requirements
Topic B	Define Team Ground Rules	Plan and Manage Scope	Execute Project to Deliver Business Value	Support Team Performance	Evaluate and Deliver Project Benefits and Value
Topic C	Negotiate Project Agreements	Plan and Manage Schedule	Manage Communications	Address and Remove Impediments, Obstacles, and Blockers	Evaluate and Address Internal and External Business Environment Changes
Topic D	Empower Team Members and Stakeholders	Plan and Manage Budget and Resources	Engage Stakeholders	Manage Conflict	Support Organizational Change
Topic E	Train Team Members and Stakeholders	Plan and Manage Quality of Products and Deliverables	Create Project Artifacts	Collaborate with Stakeholders	Employ Continuous Process Improvement
Topic F	Engage and Support Virtual Teams	Integrate Project Planning Activities	Manage Project Changes	Mentor Relevant Stakeholders	
Topic G	Build Shared Understanding about a Project	Plan and Manage Procurement	Manage Project Issues	Apply Emotional Intelligence to Promote Team Performance	
Topic H		Establish Project Governance Structure	Ensure Knowledge Transfer for Project Continuity		
Topic I		Plan and Manage Project/Phase Closure			

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Recap Session 1



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Train Team Members and Stakeholders

TOPIC E



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CREATING A HIGH-PERFORMING TEAM > TRAIN TEAM MEMBERS AND STAKEHOLDERS

Deliverables and Tools



- Training and mentoring plan
- Training cost estimates
- Training calendar
- Training assessment
- Certifications



- Training gap analysis
- Training
- Pairing and mentoring



Train Team
Members and
Stakeholders
LESSON 1
TOPIC E

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Training and Coaching Plan

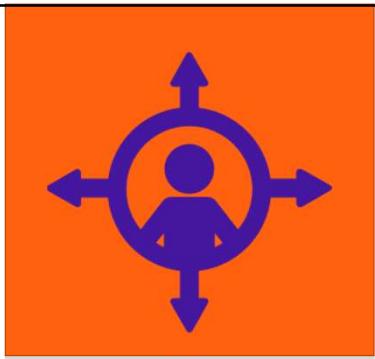
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Training and Coaching

Training focuses on building individual skills for use in the present.

Coaching helps develop well-rounded individuals through long-term professional relationships between novice and experienced employees.



Train Team Members and Stakeholders
LESSON 1
TOPIC E

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Training and Coaching Plan



Schedule training close to the time of solution implementation. This is critical to avoid delaying the overall solution deployment.



Perform a gap analysis to identify required knowledge, skills, or attributes.



Consider upskilling or certification for team members. This ultimately benefits the project.



Plan for a suitable diversity of training and coaching offerings.



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Required Competencies

- ✓ Identify required competencies prior to developing and executing a training plan.
- ✓ Competencies include knowledge, skills, and other attributes.
- ✓ Stakeholders have unique training needs.
- ✓ Train team members on the customer's business, culture, desired outcomes, and project context.



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Elements of Training

Provided to teams, small groups, and individuals

Covers management, technical, or administrative topics

Delivery models:

- ✓ Instructor-led classroom
- ✓ Virtual classroom
- ✓ Self-paced e-learning
- ✓ Document reviews
- ✓ Interactive simulations
- ✓ On-the-job training



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Training Options

Options	Description
Virtual Instructor-led training	<ul style="list-style-type: none"> • Live, online, instructor-led training through a virtual meeting or virtual training environment. • Simulated hands-on labs are possible.
Self-paced eLearning	<ul style="list-style-type: none"> • Content available to students online. This can include rich-media video, simulated lab exercises, etc. • This solution is scalable to a large number of students.
Document reviews	<ul style="list-style-type: none"> • For simple knowledge transfer, sharing relevant documents may be sufficient.



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Training Cost and Schedule

Consider the costs of training the project team and customer stakeholders as **part of the project budget**.

Use a training calendar to:

- ✓ Publish and support a specific calendar of training dates and locations.
- ✓ Publish schedule to customer stakeholders.
- ✓ Create a mechanism for registration and sending confirmation messages.
- ✓ Provide class rosters and a way to capture signatures of attendees.
- ✓ Manage the training schedule to avoid delaying the project delivery timeline.



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Pairing and Coaching

Pairing customer stakeholders together reinforces the learning through collaboration.

Coaching enables an experienced team member to coach a less-experienced team member:

- ✓ Fosters team building and a collaborative environment.
- ✓ Relationships can be informal or ad-hoc, created by the individuals themselves or formally established by the organization.



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Certifications

Demonstrate that knowledge and skills have been gained during training.

Industry credentials are portable and valuable to individuals and future employers.



PMP

CAPM

PgMP

PMI-ACP



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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Baseline and Post-Training Assessments

Baselining is a technique for measuring the efficacy of training.

- ✓ Attendees complete a pre-assessment **before** training.
- ✓ **After** training, use an assessment to demonstrate the newly acquired levels of competence.



Train Team Members and Stakeholders, LESSON 1, TOPIC E

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GUIDELINES

Ensure Training Occurs

- Create awareness among stakeholders about available training.
- Invite people to attend training.
- Engage with customer to ensure commitment to employee training programs on the solution.
- Include confirmation of registration, a notification, and reminder before the training.
- Use rosters and capture signatures to confirm attendance and participation.



Train Team
Members and
Stakeholders
LESSON 1
TOPIC E



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Engage and Support Virtual Teams

TOPIC F

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CREATING A HIGH-PERFORMING TEAM > ENGAGE AND SUPPORT VIRTUAL TEAMS

Deliverables and Tools



Collaboration technology
Engagement assessments
Project or Resource Calendar



Communication
Communication plan
Variance analysis
PM Powers



Engage and
Support
Virtual Teams
LESSON 1
TOPIC F

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Collaboration Technology

Enables teams to **plan, collaborate, and communicate.**

Not a substitute for team planning activities.

Consider **transparency requirements** when selecting collaboration technology.

Collaboration tools might include:

- ✓ Shared task boards - To promote visibility
- ✓ Messaging and chat boards - To enable communication
- ✓ Knowledge repositories - To store shared documents
- ✓ Video-conferencing tools - For face-to-face communication



Engage and Support Virtual Teams, LESSON 1, TOPIC F

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PX

Engage and Support Virtual Teams, LESSON 1, TOPIC F

Virtual Team Member Needs

Facilitate and ensure collaboration as a priority.

Basic needs of a virtual team:

- ✓ Shared goals
- ✓ Clear purpose
- ✓ Clarity on roles and expectations

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Virtual Team Member Engagement

Manage engagement by focusing on:

- ✓ Team dynamics
- ✓ Transparency
- ✓ Accountability
- ✓ Attention to effective communication

Use videoconferencing tools to facilitate active participation and the ability to assess body language and tone.

Enable visibility of work and work status with tools e.g., Kanban-style boards.



PX

Engage and Support Virtual Teams, LESSON 1, TOPIC F

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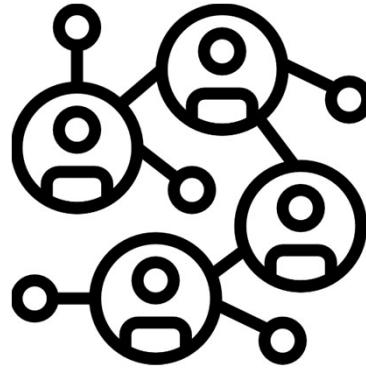
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Communication

Effective communication is the key to successful teams.

Include communication expectations and details in the **team charter**.

Use **retrospectives** to learn ways of improving communication, collaboration, and use of visibility tools.



Engage and
Support
Virtual Teams
LESSON 1
TOPIC F



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Engagement Assessments

Use Stakeholder Engagement Assessment Matrix - Compares current and desired stakeholder engagement levels.



Engage and Support Virtual Teams, LESSON 1, TOPIC F

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Communications Plan

Create the initial team communications plan.

Components include:

- ✓ Team meeting times
- ✓ Tools to track work status
- ✓ Frequency of work status updates
- ✓ Shared team hours
- ✓ Preferred communication approaches

Encourage the team to adopt its own practices and drive iterative improvements to communication approaches.

Aim for effective collaboration and broad, accurate visibility across stakeholders.

Engage and Support Virtual Teams, LESSON 1, TOPIC F

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GUIDELINES

Implement Options for Virtual Team Member Engagement

- Focus on collaboration and team norms before focusing on tools.
- Recognize that team formation in a virtual environment is difficult, so reinforce the teams' mutual commitments, achievements, and opportunities.
- Virtual teams require a significant amount of feedback and reinforcement of team goals and objectives.
- Provide opportunities for members of a virtual team to meet in person to build relationships that nurture their shared commitment to project goals.



Engage and Support Virtual Teams
LESSON 1
TOPIC F

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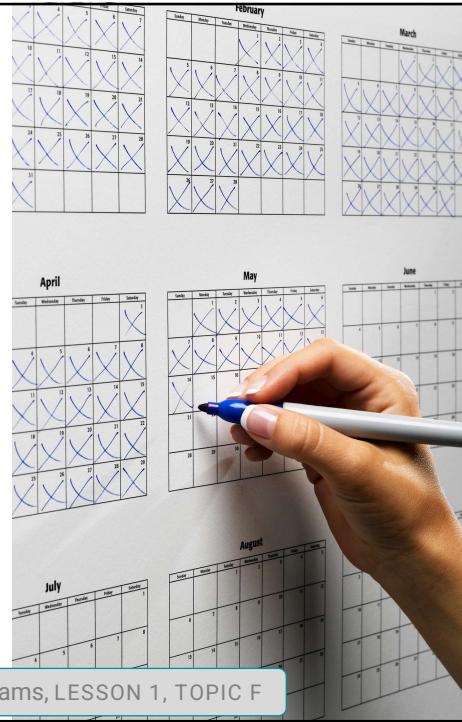
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Calendar Tools

Shared calendars help virtual teams plan meetings, coordinate feedback, and improve visibility to goals and activity status.

Timeboxed meetings:

- ✓ Improve focus
- ✓ Encourage team to set clear agendas and objectives
- ✓ Help keep the work on track



Engage and Support Virtual Teams, LESSON 1, TOPIC F

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Variance Analysis

As the team works, produce variance analyses, such as:

- ✓ Accuracy of team estimates
- ✓ Delivery in a sprint or by an established milestone
- ✓ Team performance against targets

Results of a variance analysis may be shared as part of a retrospective to serve as:

- ✓ A basis for problem solving
- ✓ Identification of lessons learned
- ✓ Proposed improvement experiments for subsequent iterations



Engage and Support Virtual Teams, LESSON 1, TOPIC F

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Virtual Team Best Practices

Manage inherent risk of individual team members becoming isolated.

Focus on shared commitments vs. individual accomplishments for tasks.

Instill a sense of shared commitments in the team:

- ✓ Start with the team charter
- ✓ Then adopt behaviors to reinforce collaboration and promote visibility

Prioritize team goals over individual performance.

Enable teams to self-organize and be accountable for deliverables.



Engage and Support Virtual Teams, LESSON 1, TOPIC F

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Build a Shared Understanding About a Project

TOPIC G



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CREATING A HIGH-PERFORMING TEAM > BUILD A SHARED UNDERSTANDING
ABOUT A PROJECT

Deliverables and Tools



Vision
XP Metaphor
Product box exercise



Charter
Project Plan
Kick-off meeting
Brainstorming
T-Shaped Skills



Build a Shared
Understanding
About a
Project
LESSON 1
TOPIC G

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Project Vision

At the start of a project, you need a **clear vision of the desired objectives**. You also need to understand and appreciate how the **project vision aligns with the organization's strategic goals**.

You are the steward of this vision, and it's up to you as the project manager to ensure the project delivers.

A vision statement might include:

- ✓ Product or solution description
- ✓ Intended users or consumers of the solution
- ✓ Key desired objectives
- ✓ Differentiators from competitive approaches
- ✓ Key features and benefits



Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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Project Charter Contents

- ✓ **Assigned project manager and responsibility / authority level**
- ✓ **Name and authority of project sponsor**
- ✓ **Other optional content:**
 - Measurable project objectives and related success criteria
 - High-level requirements
 - High-level project description, boundaries, and key deliverables
 - Overall project risk
 - Summary of milestone schedules
 - Pre-approved financial resources
 - Key stakeholders register
 - Project approval requirements
 - Project exit criteria

Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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Project Overview Statement

Communicates enterprise-wide the **intent and vision** of the project.

Written with **brevity and clarity**.

Captures the project's **objective, problem or opportunity, and criteria for success**.

Authorization via the project charter or **approved project overview statement** enables **kickoff activities** of project planning.



Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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How to Run the Project

After you have captured the project vision and understand the types and conditions around the deliverables, **you need to decide** how you will run the project.

Choose from **traditional, agile, and hybrid** approaches and methods.



Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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Kickoff Meeting

Meeting goals:

- ✓ Establish project context
- ✓ Assist in team formation
- ✓ Ensure team alignment to the overall project vision

Activities during kickoff may include:

- ✓ Defining a vision statement
- ✓ Defining a team charter
- ✓ Assisting the customer/Product Owner with:
 - User story writing
 - Estimation of effort
 - Prioritization planning
 - Initial product backlog



Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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Iteration Planning

Iteration planning is a collaborative agile ceremony, sometimes called **Sprint planning**, for the team and the customer representative (or Product Owner) to do the following:

- ✓ Review the highest prioritized user stories, or key outcomes.
- ✓ Ask questions.
- ✓ Agree on forecasts for story completion in the current iteration.

After agreement, the team determines the activities required to deliver iteration objectives.



Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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Reach Consensus

Method	Best for	How It Works
Fist of Five	Expression of range of agreement	Closed fist = complete disagreement Fist of 5 – complete agreement
Roman Voting	Simple yes or no	Thumbs up or down (sometimes sideways for neutral)
Polling	Consider independent points of view	Hear opinions and then vote
Dot Voting	Select several options from a list	Distribute dots equally, then each person allocates dots according to highest preference



Build a Shared Understanding About a Project, LESSON 1, TOPIC G

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GUIDELINES

Reach Consensus and Support the Outcome of the Parties' Agreement

- Team charter can specify how team chooses to handle certain scenarios and disagreements when they arise:
e.g. if team members disagree about the number of story points to estimate for a user story, the team charter may designate use of the higher estimate or that majority vote rules.
- Seek consensus among the team where possible and recognize that sometimes it will not be possible.

Build a Shared Understanding About a Project
LESSON 1
TOPIC G



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Project Management Institute.

LESSON 2

STARTING THE PROJECT

- Determine Appropriate Project Methodology/Methods and Practices
- Plan and Manage Scope
- Plan and Manage Schedule
- Plan and Manage Budget and Resources
- Plan and Manage Quality of Products and Deliverables
- Integrate Project Planning Activities
- Plan and Manage Procurement
- Establish Project Governance Structure
- Plan and Manage Project/Phase Closure



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Determine Appropriate Project Methodology/Methods and Practices

TOPIC A



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STARTING THE PROJECT > DETERMINE APPROPRIATE PROJECT METHODOLOGY/
METHODS AND PRACTICES

Deliverables and Tools



- Surveys
- Project business case/needs document
- Project Overview Statement
- Project Implementation Plan
- Agile practice guidelines



- Expert judgement
- Meetings
- Focus groups
- Workshops
- SMART objectives
- Knowledge of classic PM and agile practice
- Project Integration



Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Business Case and Business Needs Documents

Business case:

- ✓ Documented economic feasibility study
- ✓ Establishes benefits of project components
- ✓ Provides a basis for authorization of further project activities

Business needs documents:

- ✓ Provide high-level deliverables
- ✓ Prerequisite of formal business case
- ✓ Describe requirements - what needs creating and / or performing



Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Project Implementation Plan

Consider all stakeholders, schedules, risks, budgets, and quality standards.

Identify deliverables - due at the end of the project.

Identify project outputs - delivered throughout the project.

When delivering outputs, are we:

- ✓ Implementing them in a new or existing business environment?
- ✓ Transitioning them into a live environment?
- ✓ Decommissioning or removing old systems, processes, or materials?
- ✓ Ensuring training and knowledge transfer is complete / satisfactory?

Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Rolling Wave Planning

- ✓ Used in agile or predictive approaches
- ✓ A form of progressive elaboration applied to work packages, planning packages, and release planning
- ✓ Decompose work down to the known level of detail during strategic planning
- ✓ Decompose work packages into activities as work progresses



Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Overview: Project Management Methodologies, Methods, and Practices

Agile

- Team works collaboratively with the customer to determine the project needs.
- The coordination of the customer and the team drives the project forward.

Predictive / Plan-Driven

- Project needs, requirements, and constraints are understood, and plans are developed accordingly.
- Plans drive the project forward.

Hybrid

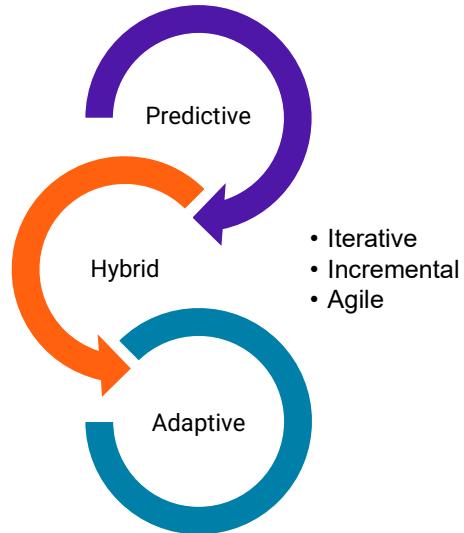
- Combines strategies from agile or predictive as required.
- Can switch approaches based on need, changing work requirements, or circumstances.

Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Types of Life Cycles



Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

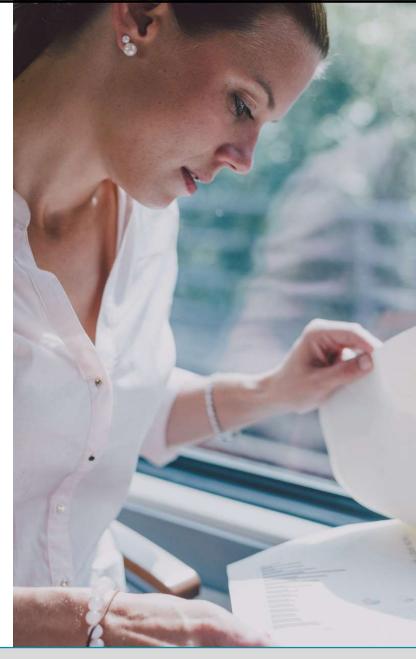
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Predictive Life Cycle

Also known as **Traditional** or **Waterfall** approach:

- ✓ Requirements are typically fixed, but can be changed using the change control process
- ✓ Activities and work culminate in final output, always a deliverable



Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Adaptive and Hybrid Life Cycles

Use these methods in dynamic and complex environments, where change is a constant.

Let's learn more about these methods next.

Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Hybrid Methods

Combine predictive and adaptive approaches to offer flexibility to teams.

Great for projects:

- ✓ Seeking or willing to learn new methods or techniques.
- ✓ With a mix of resources and experience levels
- ✓ With shorter, iterative time frames.
- ✓ With high stakeholder involvement
- ✓ With in-depth requirements

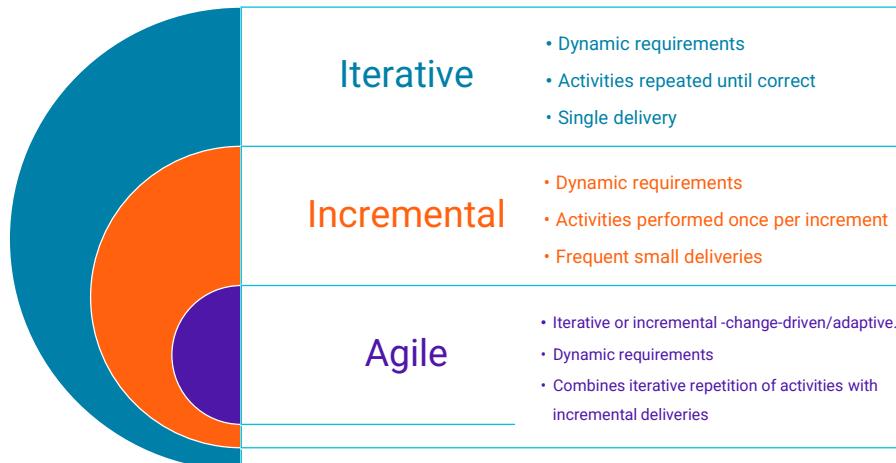


Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Adaptive Life Cycles

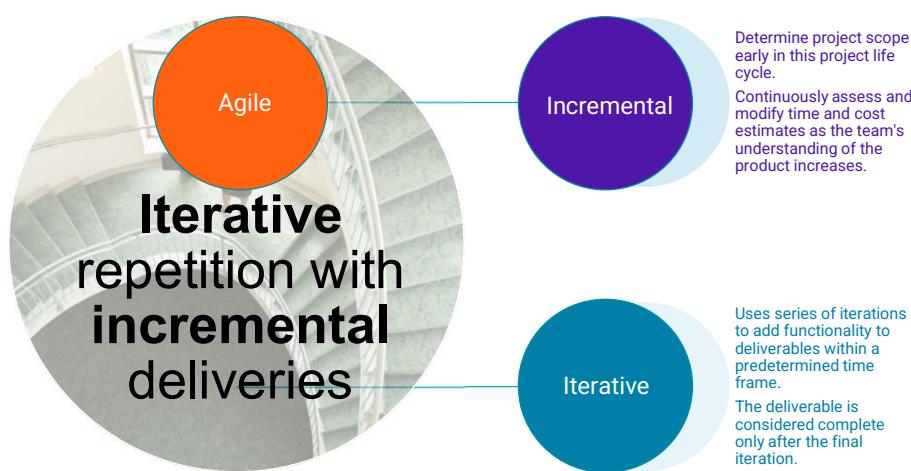


Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Adaptive Life Cycles



Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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Typical Use Cases

Methodology	Typical Use Cases
Agile	<ul style="list-style-type: none"> Software projects Intellectual property projects Research projects
Predictive / Plan Driven	<ul style="list-style-type: none"> Construction projects Projects with many physical assets "Repeats" of similar, completed projects
Iterative	Projects where learning and correction is expected to eventually reach the ideal solution.
Incremental	Customers or business wants or expects to see outputs or partial outputs early and often.
Hybrid	<ul style="list-style-type: none"> Mix of resources and experience levels Those seeking or willing to learn new methods or techniques.

Determine Appropriate Project Methodology/Methods and Practices, LESSON 2, TOPIC A

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**More
about...**

Course: Exploring Project Management, Then and Now (2021 Update)
 Video: Comparison of Project Life Cycles (1:51 run time)

Comparison of Project Life Cycles

skillsoft®

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Plan and Manage Scope

TOPIC B



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STARTING THE PROJECT > PLAN AND MANAGE SCOPE

Deliverables and Tools



Requirements Documentation
Work performance reports
Requirements Traceability Matrix



Agile estimating
Product backlog
Change requests
Product backlog
Scope management plan and
Requirements management plan

Plan and
Manage
Scope
LESSON 2
TOPIC B

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Scope Management Plan

- ✓ Should include processes to prepare a project scope statement
- ✓ Enables the creation of the WBS from the detailed project scope statement
- ✓ Establishes how the scope baseline will be approved and maintained
- ✓ Specifies how formal acceptance of the completed project deliverables will be obtained.
- ✓ Can be formal or informal, broadly framed or highly detailed.

SCOPE MANAGEMENT PLAN	
Project Title:	122 East Main Street
Date:	
Scope Statement Development	
The Scope Statement for this project will be prepared by the project manager, with assistance from other Building with Heart staff who have worked on previous home-building projects.	
WBS Structure	
The Work Breakdown Structure will consist of four levels, with the project at the top level. Phases will be used for major Level 1 deliverables (e.g., foundation, framing, interior walls, exterior, etc.). Each phase will be decomposed into appropriately-sized sub-deliverables (e.g., first-floor framing, second-floor framing). Finally, each sub-deliverable will be decomposed into work packages. Schedule and cost estimates will be prepared for each work package, and will be rolled up to the project level.	
WBS Dictionary	
Each element in the WBS will include sufficient information to enable the management of that element. The WBS Dictionary will include, but not be limited to the following: start and finish dates, resource names, durations, constraints, assumptions, and predecessor and successor elements.	
Scope Baseline Maintenance and Scope Changes	
The scope baseline will consist of the Scope Statement, WBS, and WBS dictionary. The initial scope baseline will be approved by the project sponsor. All changes to the scope baseline will follow the procedures outlined in the Integrated Change Control Process, and all changes will be documented and approved accordingly.	
Deliverable Acceptance	
Each Level 1 (Phase) deliverable will be approved by the project sponsor or his/her designee. The final deliverable, the finished home, will be approved by the Greene City Buildings Department inspector and will conform to all applicable building codes and regulations.	
Scope and Requirements Integration	
Before any design or other work has been started, a Requirements Document will be prepared.	



Plan and Manage Scope, LESSON 2, TOPIC B

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Scope Management Tools and Techniques

Expert judgment

Internal and external experts

Alternatives analysis

Used to evaluate identified options in order to select the options or approaches to use to execute and perform the work of the project.

Meetings

Team members help create the scope management plan



Plan and Manage Scope, LESSON 2, TOPIC B

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Project and Product Requirements

- ✓ High-level requirements might be documented in the project charter.
- ✓ Verify that all requirements are determined and documented.
- ✓ Provide the foundation for building the WBS.



Plan and Manage Scope, LESSON 2, TOPIC B

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Project and Product Scope

- ✓ **Predictive** - The scope baseline for the project is the approved version of the project scope statement, work breakdown structure (WBS), and associated WBS dictionary.
- ✓ **Agile - Backlogs** (including product requirements and user stories) reflect current project needs.
- ✓ **Measure completion of project scope** against the project management plan.
- ✓ **Measure completion of the product scope** against product requirements.



Plan and
Manage
Scope
LESSON 2
TOPIC B

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Tolerances

Tolerance levels enable you to effectively manage an issue without needing to escalate it every time.

Areas of tolerance might include:

- ✓ Budget
- ✓ Schedule
- ✓ Quality
- ✓ Accepted or baselined requirements, including:
 - Solution – functional/non-functional
 - Business and Stakeholder
 - Quality



Plan and Manage Scope, LESSON 2, TOPIC B

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EEFs and OPAs

- ✓ Projects exist and operate in environments that may influence them, favourably or unfavourably.
- ✓ EEFs and OPAs are two major categories of project influences.



Plan and Manage Scope, LESSON 2, TOPIC B

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Enterprise Environmental Factors (EEFs)

Internal	External
<ul style="list-style-type: none"> ✓ Organizational culture, structure, and governance ✓ Geographic distribution of facilities and resources ✓ Infrastructure ✓ Resource availability ✓ Employee capability 	<ul style="list-style-type: none"> ✓ Marketplace conditions ✓ Social and cultural influences and issues ✓ Legal restrictions ✓ Commercial databases ✓ Academic research ✓ Government or industry standards ✓ Financial considerations ✓ Physical environmental elements

Plan and Manage Scope, LESSON 2, TOPIC B

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Organizational Process Assets (OPAs)

Processes, policies, and procedures are:

- ✓ Established by the project management office (PMO) or another function outside of the project.
- ✓ Not updated as part of project work
- ✓ **Templates, lifecycles, and checklists** can be tailored, but not updated, for a project.

Organizational knowledge bases are:

- ✓ Updated throughout the project with project information
- ✓ Updated information such as financial performance, lessons learned, performance metrics and issues, and defects.



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More about...

Course: Selecting a Project Management Approach (2021 Update)
Video: Environmental Influences and Organizational Assets (2:40 run time)

Environmental Influences and Organizational Assets

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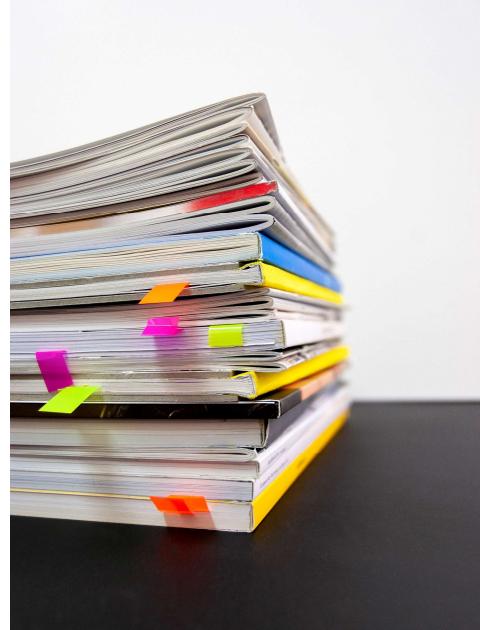
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Document Analysis

Derive new project requirements from existing documents such as:

- ✓ Business plans
- ✓ Service agreements
- ✓ Marketing materials
- ✓ Current process diagrams
- ✓ Application software documentation



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Focus Groups

- ✓ Loosely structured, information-sharing sessions
- ✓ Moderator-guided, interactive
- ✓ Includes stakeholders and SMEs
- ✓ Qualitative research



Questionnaires and Surveys

- Often used data gathering technique:
- With varied audiences
 - When a quick turnaround is needed
 - When respondents are geographically dispersed
 - Where statistical analysis could be appropriate.



Benchmarking

- ✓ **Evaluates and compares** a business' or project's practices with others.
- ✓ **Identifies best practices** in order to meet or exceed them.



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Interviews

- ✓ Helps to identify a stakeholder's requirements, goals, or expectations for a project.
- ✓ Use to identify/define features and functions of desired project's deliverables.



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Group Decision-Making Techniques

Voting

Collective decision-making and assessment
Determines several alternatives, with future actions as the expected outcome
Use to generate, classify, and prioritize product requirements

Autocratic decision making

One team member makes the decision for the group.

Multicriteria decision analysis

Method - Establish criteria in decision matrix e.g. *risk levels, uncertainty, and valuation*
Uses a systematic, analytical approach
Evaluate and rank many ideas



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Types of Voting

Unanimity

Everyone agrees on a single course of action.
Useful in project teams with great cohesion.
Example: Delphi technique

Majority

Decision reached with > 50% of group support
Tip: Create groups of an uneven number of participants to ensure decisions are made and tie votes avoided.

Plurality

Decision reached with largest block in a group deciding, even if majority is not achieved.
Use this method when more than 2 options are nominated.

Agile Methods

Thumbs up/down/sideways
Fist of Five



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Data Representation

Tailor to project context and decision-making criteria.

- ✓ **Mind Mapping** – Consolidate ideas created through individual brainstorming sessions into a single map to reflect commonality and differences in understanding and to generate new ideas
- ✓ **Affinity Diagram** – Allows large numbers of ideas to be classified into groups for review and analysis



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**More
about...**

Course: Managing the Project Scope (2021 Update)

Video: Collecting Requirements (10:49 run time)

Watch: Start to 2:19 and 3:57 to 6:02

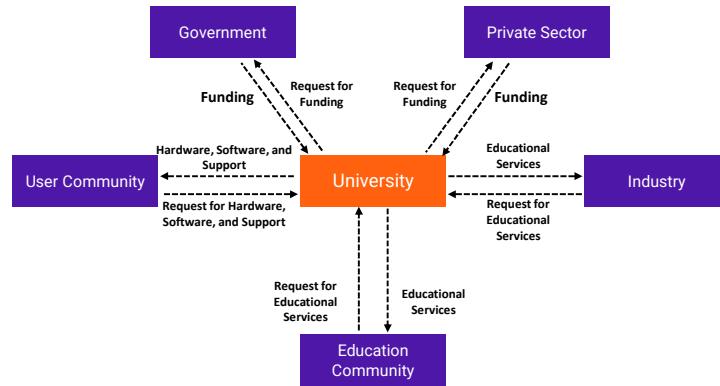
Collecting Requirements

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Context Diagrams

Business Context Diagram Sample



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Requirements Documentation

- ✓ Describes how individual requirements meet project business need.
- ✓ Starts at a high level before providing details.
- ✓ Requirements need to be unambiguous (measurable and testable), traceable, complete, consistent, and acceptable to key stakeholders.
- ✓ Format can be simple (document listing all requirements, categorized by stakeholder and priority) or more elaborate (executive summary, detailed descriptions, attachments).



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Types of Requirements



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LESSON 2
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Nonfunctional Requirements

Type	Considerations
Availability	<ul style="list-style-type: none"> How and when is the service available? If the service were to become unavailable, how quickly can it be restored to working?
Capacity	<ul style="list-style-type: none"> What level of service performance, speed, and throughput is required? Given the number of stakeholders using the service, is there enough supply to meet demand?
Continuity	<ul style="list-style-type: none"> If there were a disaster of some kind, how quickly could the service be recovered to support operations.
Security	<ul style="list-style-type: none"> How well is the service and its information protected from security risks and threats? How do you guarantee the confidentiality, integrity, and availability of the information?



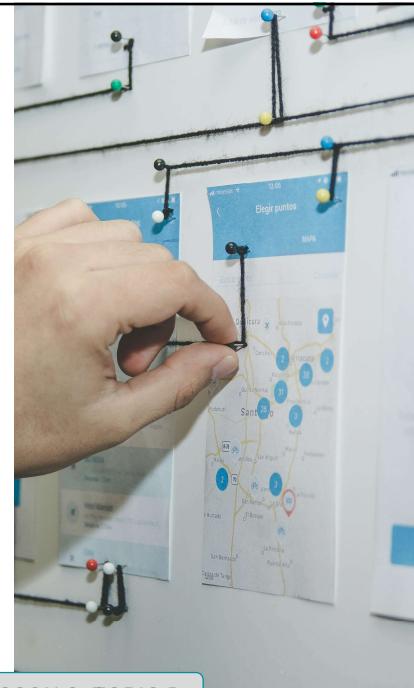
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Requirements Management Plan

- ✓ Planning, tracking, and reporting information for requirements activities.
- ✓ Configuration management activities:
 - Version control rules
 - Impact analysis
 - Tracing, tracking, and reporting
- ✓ Required authorization levels for change approval
- ✓ Prioritization criteria / process
- ✓ Product metrics and accompanying rationale
- ✓ Traceability structure, including requirement attributes



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Requirements Traceability Matrix

Requirements Traceability Matrix								
		Requirements Description	Business Needs, Opportunities, Goals, Objectives	Project Objectives	WBS Deliverables	Product Design	Product Development	Test Cases
ID	Associate ID							
001	1.0							
	1.1							
	1.2							
	1.2.1							
002	2.0							
	2.1							
	2.1.1							
003	3.0							
	3.1							
	3.2							
004	4.0							
005	5.0							

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GUIDELINES

Collecting Project Requirements

- Review:
 - Scope management plan
 - Requirements management plan
 - Stakeholder engagement plan
 - Project charter
 - Stakeholder register
- Use tools and techniques such as interviews, focus groups, facilitated workshops, group creativity techniques.



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Project Scope Statement

Project Scope Statement			
Project Name:		Date:	
Project Manager:			
Prepared By			
Document Owner(s) <Name>	Project/Organization Role Project Manager		
Version History			
Version 1.0	Date <Today's Date>	Author <Name>	Change Description Created document
Project Description: <div style="border: 1px solid black; padding: 5px;">A building project conducted by My Organization that will construct a single-family home for the Andrews family. The building site is located at 234 West Adams Street. The project manager will provide consistent project status reports to senior management as well as the project sponsor.</div>			
Acceptance Criteria: <hr/>			

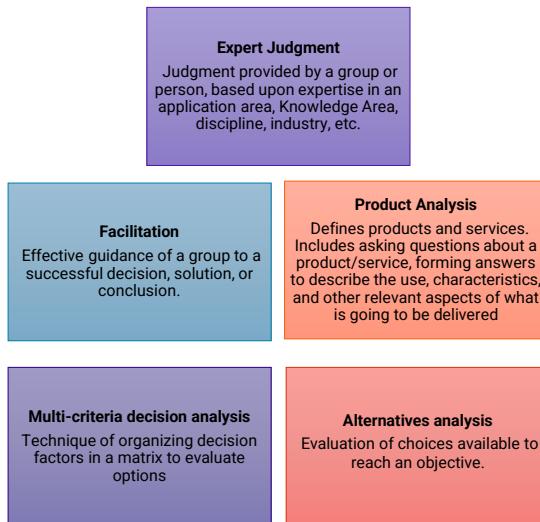


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Scope Tools and Techniques

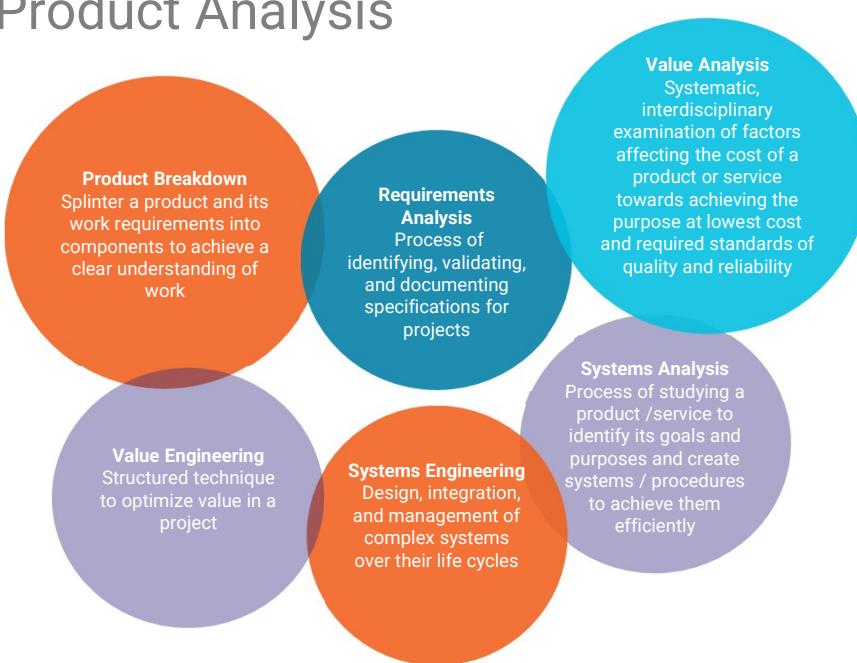


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Product Analysis

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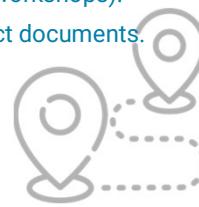
GUIDELINES

Develop a Project Scope Statement

- Review:
 - Scope management plan (developing, monitoring, and controlling project scope activities)
 - Project charter (high-level project description and product characteristic and project approval requirements)
- Requirements documentation
- OPAs – templates, processes, and procedures
- Use tools and techniques to define the project scope (expert judgment, product analysis, alternatives generation, and facilitated workshops).
- Document the project scope statement and update project documents.



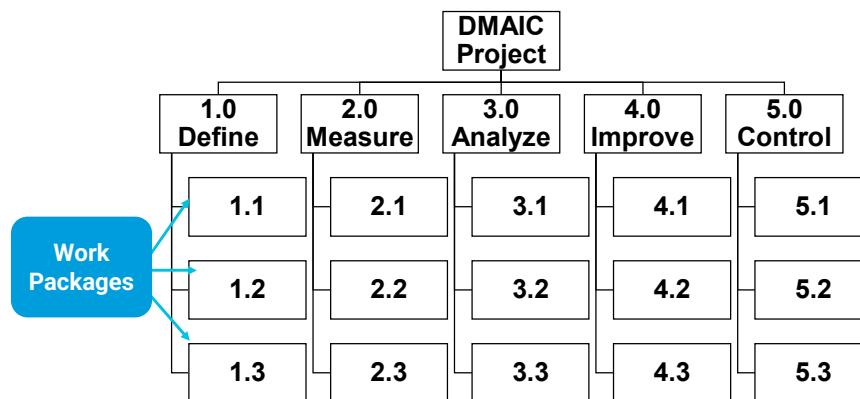
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Work Breakdown Structure



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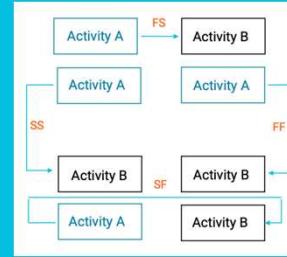
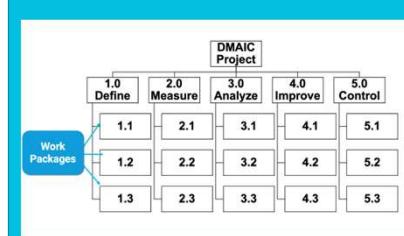
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WBS Dictionary

Can include:

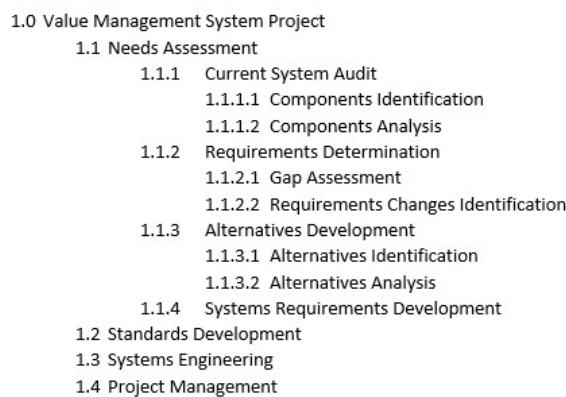
- ✓ Code of account identifier
- ✓ Description of work
- ✓ Assumptions and constraints
- ✓ Responsible organization
- ✓ Schedule milestones
- ✓ Associated schedule activities
- ✓ Resources required to complete the work
- ✓ Cost estimations
- ✓ Quality requirements
- ✓ Acceptance criteria
- ✓ Technical references
- ✓ Agreement information



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Decomposition - Example



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Control Accounts, Work and Planning Packages

Let's explore the units of work in a project WBS.



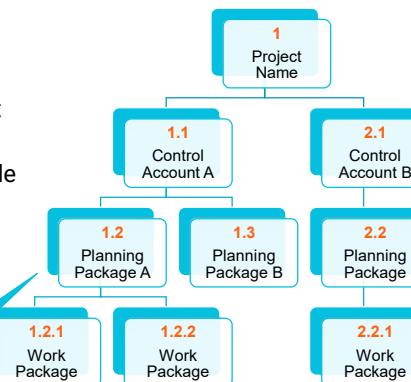
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Planning Work Using a WBS

- ✓ A control account has two or more work packages.
- ✓ A planning package may or may not be used.
- ✓ Each work package is part of a single control account.
- ✓ **Identifiers** provide a structure for hierarchical summation of costs, schedule, and resource information and form a code of accounts.



Planning package (optional layer) houses work content, but no schedule or details.

Lowest level - a work package with a unique identifier; contains detailed schedule and cost information.

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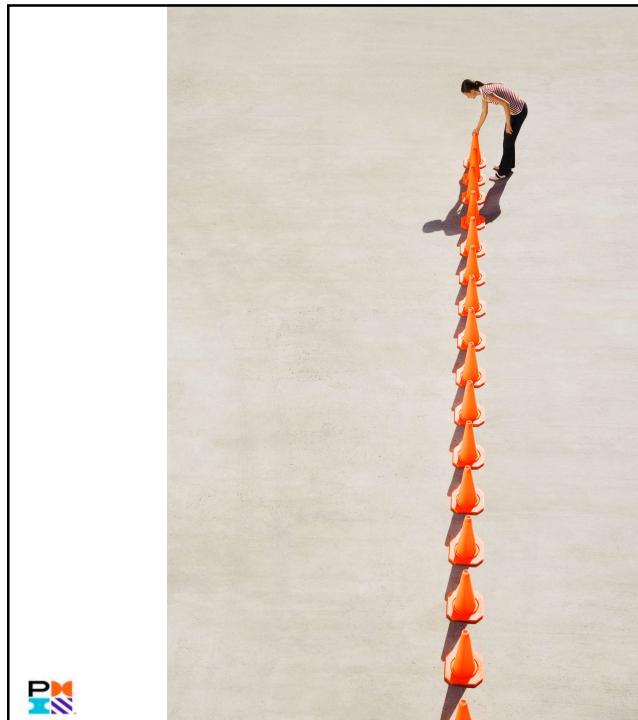
Course: Managing the Project Scope (2021 Update)
Video: The Work Breakdown Structure (WBS) (5:43 run time)

The Work Breakdown Structure (WBS)

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Scope Baseline

Components include:

- ✓ Project scope statement
- ✓ WBS
 - Work packages
 - Planning package
- ✓ WBS dictionary

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GUIDELINES

Create a WBS

- Review:
 - Scope management plan
 - Project scope statement
 - Requirements documentation
- EEFs and OPAs
- Use tools and techniques e.g. decomposition
- Use expert judgment
- Include notes on work products that might be delivered incrementally
- Document the scope baseline

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Your PMP Bootcamp Course Syllabus (Mapped to the PMP Student Manual)

	Creating a High-Performing Team Lesson 1	Starting the Project Lesson 2	Doing the Work Lesson 3	Keeping the Team on Track Lesson 4	Keeping the Business in Mind Lesson 5
Topic A	Build a Team	Determine Appropriate Project Methodology/Methods and Practices	Assess and Manage Risks	Lead a Team	Manage Compliance Requirements
Topic B	Define Team Ground Rules	Plan and Manage Scope	Execute Project to Deliver Business Value	Support Team Performance	Evaluate and Deliver Project Benefits and Value
Topic C	Negotiate Project Agreements	Plan and Manage Schedule	Manage Communications	Address and Remove Impediments, Obstacles, and Blockers	Evaluate and Address Internal and External Business Environment Changes
Topic D	Empower Team Members and Stakeholders	Plan and Manage Budget and Resources	Engage Stakeholders	Manage Conflict	Support Organizational Change
Topic E	Train Team Members and Stakeholders	Plan and Manage Quality of Products and Deliverables	Create Project Artifacts	Collaborate with Stakeholders	Employ Continuous Process Improvement
Topic F	Engage and Support Virtual Teams	Integrate Project Planning Activities	Manage Project Changes	Mentor Relevant Stakeholders	
Topic G	Build Shared Understanding about a Project	Plan and Manage Procurement	Manage Project Issues	Apply Emotional Intelligence to Promote Team Performance	
Topic H		Establish Project Governance Structure	Ensure Knowledge Transfer for Project Continuity		
Topic I		Plan and Manage Project/Phase Closure			

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BOOTCAMP DAILY SURVEY



LOOK FOR THE SURVEY LINK IN THE CHAT

Our goal is to provide the best possible Bootcamp experience for a live streaming webinar, with hundreds of participants.

For each Bootcamp session,

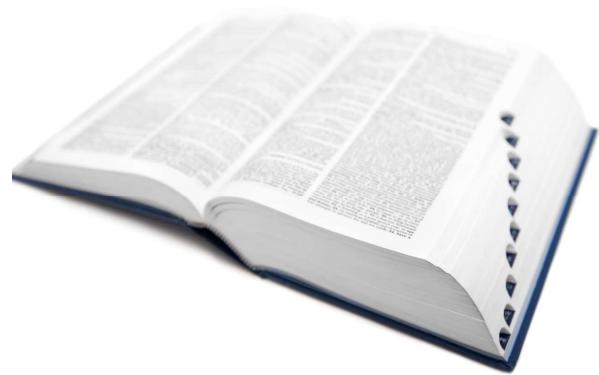
- Let us know **what you liked** about the experience – your comments really matter.
- Please include a thank you **to the mentor(s)** working off camera.
- If you have **recommendations**, share those too!

We sincerely value your opinion!

Additional Resources

101

VOCABULARY
FROM TODAY'S SESSION



102

Project Charter



DEFINITION

A document issued by the project initiator or sponsor that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities.



103

Consensus



DEFINITION

Consensus is a collaborative process to reach a decision that everyone can support.



104

Rolling Wave Planning



DEFINITION

An iterative planning technique in which the work to be accomplished in the near term is planned in detail, while work further in the future is planned at a higher level.



105

Progressive Elaboration



DEFINITION

The iterative process of increasing the level of detail in a project management plan as greater amounts of information and more accurate estimates become available.



106

Predictive Life Cycle



DEFINITION

Determine project scope, time, and cost in the early phases of this life cycle.



107

Scope Management Plan



DEFINITION

A component of the project or program management plan that describes how the scope will be defined, developed, monitored, controlled, and validated.



108

Project Requirements



DEFINITION

The actions, processes, or other conditions the project needs to meet e.g. milestone dates, contractual obligations, constraints, etc.



109

Product Requirements



DEFINITION

The agreed-upon conditions or capabilities of a product, service, or outcome that the project is designed to satisfy.



110

Project Scope



DEFINITION

The work performed to deliver a product, service, or result with the specified features and functions. “Project scope” may include product scope.



111

Product Scope



DEFINITION

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



112

Enterprise Environmental Factors (EEFs)



DEFINITION

Conditions (internal or external) not under the control of the project team, that influence, constrain, or direct the project at organizational, portfolio, program, or project level.



113

Organizational Process Assets (OPAs)



DEFINITION

Plans, processes, policies, procedures, and knowledge bases specific to and used by the performing organization. These assets influence the management of the project.



114

Document Analysis



DEFINITION

A technique used to gain project requirements from current documentation evaluation.



115

Focus Groups



DEFINITION

An elicitation technique that brings together prequalified stakeholders and subject matter experts to learn about their expectations and attitudes about a proposed product, service, or result.



116

Questionnaires and Surveys



DEFINITION

Written format of questions designed to quickly capture information from many respondents.



117

Benchmarking



DEFINITION

The comparison of actual or planned products, processes, and practices to those of comparable organizations to identify best practices, generate ideas for improvement, and provide a basis for measuring performance.



118

Interviews



DEFINITION

A formal or informal approach to elicit information from stakeholders by talking with them directly.



119

Observations



DEFINITION

A technique used to gain knowledge of a specific job role, task, or function in order to understand and determine project requirements.



120

Facilitated Workshops



DEFINITION

Organized working sessions led by qualified facilitators to determine project requirements and to get all stakeholders together to agree on project outcomes.



121

Context Diagrams



DEFINITION

Visual depiction of product scope, showing a business system (process, equipment, computer system, etc.) and how people and other systems interact with it.



122

Storyboarding



DEFINITION

A prototyping method using visuals or images to illustrate a process or represent a project outcome.



123

Prototyping



DEFINITION

Assists in the process of obtaining early feedback on requirements by providing a working model of the expected product before building.



124

Requirements Management Plan



DEFINITION

A component of the project or program management plan that describes how requirements will be analyzed, documented, and managed.



125

Requirements Traceability Matrix



DEFINITION

Links product requirements from their origin to the deliverables that satisfy them.



126

Project Scope Statement



DEFINITION

The description of the project scope, major deliverables, assumptions, and constraints.



127

Product Analysis



DEFINITION

A tool to define scope by asking questions about a product and forming answers to describe the use, characteristics, and other relevant aspects of the product.



128

Work Breakdown Structure



DEFINITION

A hierarchical decomposition of a project's total scope of work to accomplish project objectives and create the required deliverables.



129

Code of Accounts



DEFINITION

Numbering system that uniquely identifies each component of the WBS.



130

WBS Dictionary



DEFINITION

Provides detailed deliverable, activity, and scheduling information about each component in the WBS.



131

Decomposition



DEFINITION

A technique of dividing and subdividing the project scope and deliverables into smaller, more manageable parts.



132

Control Account



DEFINITION

A management control point where scope, budget, actual cost, and schedule are integrated and compared to earned value for performance measurement.



133

Planning Package



DEFINITION

A WBS component below the control account with known work content but without detailed schedule activities.



134

Work package



DEFINITION

The work defined at the lowest level of the WBS for which cost and duration are estimated and managed.



135

Scope Baseline



DEFINITION

Approved version of a scope statement, WBS, and its associated WBS dictionary, that can be changed using formal change control procedures and is used as a basis for comparison to actual results.



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