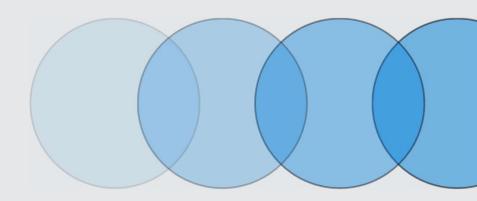


Workshop 5 Topics

- Project Management Process
- Groups
- Performance Domains
- Project Initiation
- Project Planning (Part 1)
- Project Scope Planning

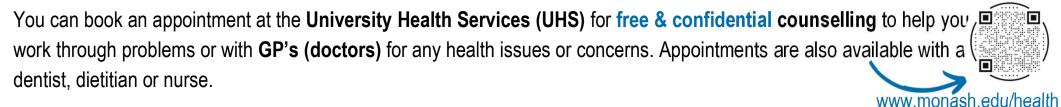




WEEK 4-5 CAN BE A TIME OF **INCREASED STUDY STRESS & PRESSURE**

GETTING **HELP EARLY**, CAN **MAKE A DIFFERENCE**.

There are services on campus to help you:



Student Academic Success (SAS) offers personalised support, workshops and online resources to help you develop the skills you need to succeed in your studies.

Talk to **Disability Support Services (DSS).** If you have a disability, medical or mental health condition that impacts your studies, you can register for recommendations and adjustments.

Think about taking fewer classes (reducing your study load) before the census date on **March 31st**, which is the last day to make changes without affecting your grades or paying the fees (there are some exceptions). Before deciding, it's a good idea to get advice from Monash Connect.





WORKSHOP 5 LEARNING OBJECTIVES



Predictive Approach to Project
Management

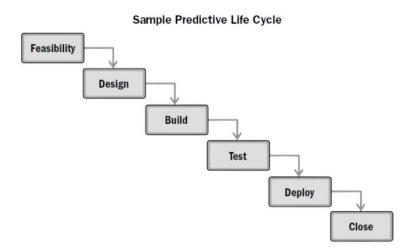




Predictive approach



A predictive approach to managing a project is useful when the project and product requirements can be defined, collected, and analyzed at the start of the project.







This may also be referred to as a waterfall approach.

The scope, schedule, cost, resource needs, and risks can be well defined in the early phases of the project life cycle, and they are relatively stable.



Examples of projects that would use the predictive approach:

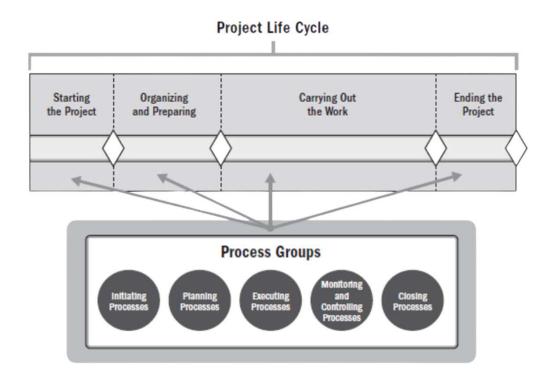
- Software projects where the scope is well defined, Construction projects, Manufacturing projects, Space exploration projects, Hardware installation



Project Life Cycle

A project life cycle is the series of phases that a project passes through from its start to its completion. It provides *the basic framework* for managing the project.

The phases may be <u>sequential</u>, <u>iterative</u>, <u>or</u> <u>overlapping</u>. Project life cycles can **be predictive or adaptive**. All projects can be mapped to the generic life cycle:





THE PROJECT PROCESS GROUPS



Project management processes can be organized into logical groupings of project management inputs, tools and techniques, and outputs that are tailored to meet the needs of the organization, stakeholders, and the project.



The five distinct Process Groups of project management interact at various points within a project life cycle. They are not to be confused with project phases; rather, they might all occur within one specific phase, repeat within a phase, or occur in each separate life cycle phase.





Project Life Cycle 5 Steps



Initiation

Those processes performed to define a new project or a new phase of an existing project by obtaining authorization to start the project or phase.



Planning

Those processes required to establish the scope of the project, refine the objectives, and define the course of action required to attain the objectives that the project was undertaken to achieve.



Execution

Those processes performed to complete the work defined in the project management plan to satisfy the project requirements.



Monitoring

Those processes required to track, review, and regulate the progress and performance of the project; identify any areas in which changes to the plan are required; and initiate the corresponding changes.



Closure

Those processes performed to formally complete or close a project, phase, or contract.

Activity 1: Quick Quiz (Individual)



- 2. A _____ is a series of actions directed towards a particular result.
- a) Goal
- b) Process
- c) Plan
- d) Project



- 2. _____ processes include coordinating people and other resources to carry out project plans and create the products, services, or results of the project or phase.
- a) Initiating
- b) Planning
- c) Executing
- d) Monitoring and controlling
- e) Closing



- 3. Many people use ______ to have a standard format for preparing various project management documents.
- a) Methodologies
- b) Templates
- c) Project management software
- d) Standards



Slide 9

1 @Sanaz.Nikfalazar1@monash.edu just checking answer guide is Process, executing, templates, A, C

Reassigned to Sanaz.Nikfalazar1@monash.edu

Roisin McNaney, 18/08/2024

2 do we want to do this as a Kahoot quiz?

Roisin McNaney, 18/08/2024

- Yes the answers are correct. I also added a workshop guide to the drive: https://docs.google.com/document/d/1sJ1Gms6F7UaYoDqkhW0jLOXcUEc6kUj67zYd Sanaz Nikfalazar, 18/08/2024
- We can do it through Kahoot but that has a limit if we want to use the free version. We thought just reviewing these in class is easier, and it is in the slides to everyone has them available

Sanaz Nikfalazar, 18/08/2024

Activity 1: Quick Quiz (Individual)



- 4. Which of the following is a typical reason that project teams would use an agile approach versus a predictive approach to managing a project?
- a) The project has unclear up-front requirements.
- b) The project team is inexperienced and dispersed.
- c) Large risks are involved
- d)The completion date is fairly rigid.



5. Which process group normally requires the most resources and time?

- a) Initiating
- b) Planning
- c) Executing
- d) Monitoring and controlling
- e) Closing



Project Management Process Groups





1. Project Initiation

Process Group

The PMBOK defines the project initiation phase as "the process of formally recognizing that a new project exists or that an existing project should continue into its next phase."





do we want to be clear that this isn't always required, and that feasibility can be identified from existing/ historical projects. I know this comes from the PMBOK but in practice feasibility studies are not always run

Roisin McNaney, 18/08/2024



Steps involved in Project Initiation

Business Case

A business case document provides the business justification and a projection of anticipated business value from a project. It includes:

- Business objectives
- Problem statement
- Critical assumptions and constraints
- Budget & schedule estimates
- Potential risks

Feasibility Study

A feasibility study aims to provide an independent assessment that examines all aspects of a proposed project, including technical, economic, financial, legal, and environmental considerations. This information then helps decisionmakers determine whether or not to proceed with the project.

Project Charter

A project charter is a document that formally recognizes the existence of a project and provides direction on the project's objectives and management. It authorizes the project manager to use organizational resources to complete the project.





Steps involved in Project Initiation

Identify key stakeholders

Key stakeholders should be involved in the project initiation phase to ensure informed participation, alignment on project goals, and cohesive progress. Stakeholder identification and analysis are crucial, with a strategy for managing stakeholders being developed during project initiation.

Build a team and organize resources

One (an individual or a team) must take charge of overseeing the project. This person or group of people must be identified during the project initiation.

One great example of project initiation documentation you may need for this step is the project charter, wherein various project elements and details are outlined. Using this, it'll be easier for you to pinpoint and appoint the right people to effectively carry out each aspect of the project based on their skills and expertise.

Make improvements or changes as needed

Before finalizing the project initiation document, changes or improvements may be done to further reinforce the need for the project to be executed and the resources needed for it to be successfully implemented.



Example Project Charter

Project Title: Project Management Intranet Site Project

Project Start Date: May 2 Projected Finish Date: November 4

Budget Information: The firm has allocated \$140,000 for this project. The majority of costs for this project will be internal labor. An initial estimate provides a total of 80 hours per week.

Project Manager: Erica Bell, (310) 555-5896, erica bell@jwdconsulting.com

Project Objectives: Develop a new capability accessible on JWD Consulting's intranet site to help internal consultants and external customers manage projects more effectively. The intranet site will include several templates and tools that users can download, examples of completed templates and related project management documents used on real projects, important articles related to recent project management topics, an article retrieval service, links to other sites with useful information, and an Ask the Expert feature, where users can post questions about their projects and receive advice from experts in the field. Some parts of the intranet site will be accessible free to the public, other parts will only be accessible to current customers and internal consultants, and other parts will be accessible for a fee.

Main Project Success Criterion: The project should pay for itself within one year of completion.

Approach:

- Develop a survey to determine critical features of the new intranet site and solicit input from consultants and customers.
- Review internal and external templates and examples of project management documents.
- Research software to provide security, manage user inputs, and facilitate the article retrieval and Ask the Expert features.
- Develop the intranet site using an iterative approach, soliciting a great deal of user feedback.
- Develop a way to measure the value of the intranet site in terms of reduced costs and new revenues, both during the project and one year after project completion.

ROLES AND RESPONSIBILITIES (PARTIAL LIST)				
Name	Role	Position	Contact Information	
Joe Fleming	Sponsor	JWD Consulting, CEO	joe_fleming@jwdconsulting.com	
Erica Bell	Project Manager	JWD Consulting, manager	erica_bell@jwdconsulting.com	
Michael Chen	Team Member	JWD Consulting, senior consultant	michael_chen@jwdconsulting.com	

Sign-Off: (Signatures of all the above stakeholders)

Comments: (Handwritten or typed comments from above stakeholders, if applicable)



Case Study: Project Charter

Many people are familiar with the television show called **Shark Tank** where entrepreneurs (sometimes called <u>"treps"</u>) present their business ideas **to a group of investors or sharks.** Several colleges, high schools, and even elementary schools throughout the world hold unique versions of a shark tank like event.

You believe that creating a non-profit organization with one central mobile-friendly website/application to assist groups in organizing these types of events would spark even more entrepreneurs throughout the world. You would plan to hold several shark tank like events during the term of the project and create a site and applications to help continue developing more global treps.





Case Study: Project Charter

This site/application would include the following capabilities:

- Provide guidelines and templates for running a shark tank type of event.
- Accept donations from potential investors targeted toward specific schools or organizations wishing to host an event
- · Accept ideas for needed new products or services.
- Provide the ability for organizations to create their own custom site to solicit local participants and sharks, accept applications, and promote the winners as well as losers.
- Research ideas for a mechanism where a certain percentage of all donations and profits earned by contestants are donated back to the Global Treps organization.





4

Activity 2: Project Charter (Group activity)

Prepare a Project Charter for the Global Treps project. Assume that the project will take six months to complete, use many volunteer hours, and cost about \$130,000 for hardware, software, travel, and labor.

Use the template provided in the link

https://shorturl.at/1yv4X







are we adding the Youtube timer in? Roisin McNaney, 18/08/2024 4

Project Management Process Groups

















⁵ 2A	Project Scope Planning	Week 05
2B	Project Schedule Planning	Week 06
2C	Project Cost Planning	Week 06
2D	Project Quality Planning	Week 07
2E	Project Resource Planning	Week 07
2F	Project Communications Planning	Week 07
2G	Project Risk Planning	Week 07
2H	Project Procurement Planning	Week 07
21	Project Stakeholder Planning	Week 07

Project Planning Process Group

The Planning Process Group consists of those processes performed to establish the total scope of the effort, define and refine objectives, and develop the course of action required to attain those objectives."

- A Guide to the Project Management **Body of Knowledge**



what is the 'week' references here? are these the weeks that we will be covering the content in the unit?

Roisin McNaney, 18/08/2024











Project Scope Management Process

Process	Project Group	Key Deliverables	
Planning Scope Management	Planning		
Collecting Requirement	Planning	Required Documents	
Defining the scope	Planning	Project Scope statement	
Creating the WBS	Planning	WBS dictionary, directory and breakdown	
Validating the Scope	Monitoring and controlling	Acceptance of deliverables	
Controlling the scope	Monitoring and controlling	Change Request Documented	

Project scope planning

includes the processes required to ensure that the project includes all the work required, and only the work required, to complete the project successfully. It is primarily concerned with defining what is or is not included in the project, to meet the sponsors' and stakeholders' goals and objectives. It involves four main processes.













2A. Project Scope Planning - Definitions



Requirement



Functional Requirement



Non-Functional
Requirement

A more granular component of the product scope, it usually has a child– parent relationship with a product feature.

This is an action that the product (system) must perform under specific conditions. Functional requirements are typically used in IT and software development to describe the product scope.

This is a property or quality describing such properties as look and feel, usability, security, and legal restrictions that the product (system) must have.

Nonfunctional requirements are typically used in IT and software development to describe the product scope.

this website gives a really good description and examples of NFRs if it could be added as a resource to the slides https://www.perforce.com/blog/alm/what-are-non-functional-requirements-examples of NFRs if it could be added as a resource to the slides https://www.perforce.com/blog/alm/what-are-non-functional-requirements-examples of NFRs if it could be added as a resource to the

2A. Project Scope Planning – Collecting Requirements













Collect Requirements is the process of determining, documenting, and managing stakeholder needs and requirements to meet objectives. The key benefit of this process is that it provides the basis for defining the product scope and project scope.

There are several ways of collecting requirements:

- Interviews
- Questionnaires or Surveys
- User Observation
- Document Analysis
- Workshops
- Brainstorming
- Role-Play
- Use Cases and Scenarios
- Focus Groups
- Prototyping













⁷ Req No.	Name	Category	Source	Status
R01	Laptop memory	Hardware	Project charter and corporate laptop specifications	Complete. Laptops ordered meet memory requirements.
R02	Mobile compatibility	Software	User requirements documents	In planning stage.
R03	Backup system	System	Corporate security specs.	Implemented.
R04	Multi-language	Software	Global requirements	To be specified.

2A. Project Scope Planning - RTM

In addition to preparing requirements
documentation as an output of collecting
requirements, project teams often create a
Requirements Traceability Matrix (RTM); this is a
table that lists requirements, their various
attributes, and the status of the requirements to
ensure that all are addressed.

I don't love this example, it's probably from the Schwalbe text but the requirements don't feel like they are really framed as requirements and there are no 'attributes' Roisin McNaney, 18/08/2024

Activity 3 (Optional) Collecting Requirements (Group activity)

You are working on a project to develop a system to help university students to find jobs.

The system must be tailored to the student population and be easy to use.

- 1. How would you collect requirements for the system?
- 2. Identify 3 main requirements



	Project Scope Statement				
Title	Timesheet Reporting Tool Date				une 08, 2017
Project Manager	Nicole Hansen				
Project Justification	The Timesheet Reporting tool will be the creation of a user-friendly web- based application. The application will automate the process of tracking the daily time entries made by employees				
Project Scope Description	The timesheet reporting tool will be used as a tracking tool to review the time entries by the Information Technology employees globally				
Project Objective	To create a tool to track the timesheet entries for all the Information Technology employees				
High Level Requirements	User access for the tool granted to all employees. Admin access to support team Report generation access to project managers Enable users to remotely access the tool. Standard templates for all reports				
In Scope	Multi – level approvals for timesheets Timesheet tasks additions to the tool by Admin access users 'Copy Previous Week' timesheets feature. Access tool via Desktop				
Out of Scope	New project/task addition to the tool by managers Connectivity with HRMS to update employee leaves automatically. Role based task list template. Access tool via mobile and tablet				
	Cost Item	Estimated Project Cost	Actual Spend	Cost unt	on
Cost Estimate	Software	\$2300	\$900	\$1400	
	Hardware Other	\$5000	\$1500 \$0	\$3500 \$750	+/- 1000 +/- \$100
	Other	\$750 \$8050	\$2400	\$5650	



2A. Project Scope Planning– Defining the Scope

According to the Project Management Institute, a strong Project Scope Statement has several key characteristics. It should:

- Define the boundaries of the project.
- Define the business need and the expected outcome of the project.
- Identify constraints that limit a project team's options for developing a solution.
- List assumptions regarding decisions outside the project team's control.
- Identify business processes impacted by the project.
- Identify internal and external entities with which the project team will interface.













2A. Project Scope Planning – Creating the Work Breakdown Structure



Often depicted as a taskoriented tree of activities, similar to an organizational chart.



The main tool or technique for creating a WBS, subdividing project deliverables into smaller pieces.



WBS

Task-oriented tree of activities

Foundation document

Decomposition

Work package

A deliverable-oriented grouping of the work involved in a project that defines its total scope.



Provides the basis for planning and managing project schedules, costs, resources, and changes.

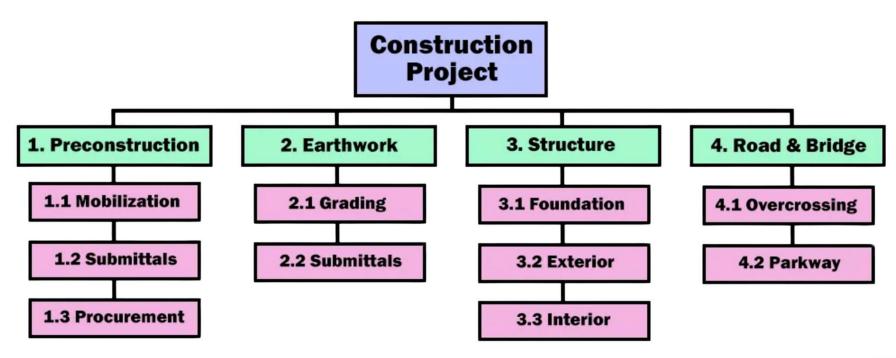


A task at the lowest level of the WBS.





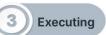
2A. Project Scope Planning – Example WBS Organized by product deliverables















2A. Project Scope Planning – Example WBS Organized by phase

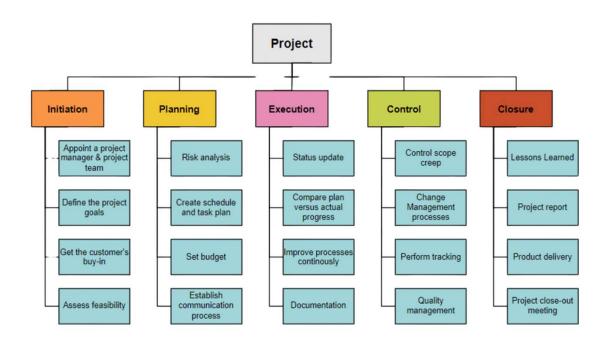


Chart Form

1.0	Soft	ware Product Release 5.0		
	1.1	Project Management		
		1.1.1 Planning		
		1.1.2 Meetings		
		1.1.3 Administr	ation	
	1.2	Product Requirer	nents	
		1.2.1 Software		
		1.2.2 User Docu	mentation	
		1.2.3 Training F	rogram Materials	
	1.3	Detail Design		
		1.3.1 Software		
		1.3.2 User Docu	mentation	
		1.3.3 Training F	rogram Materials	
	1.4	Construct		
		1.4.1 Software		
		1.4.2 User Docu	mentation	
		1.4.3 Training F	rogram Materials	
	1.5	Integration and T	est	
		1.5.1 Software		
		1.5.2 User Docu	mentation	
		1.5.3 Training F	rogram Materials	

Tabular Form











2A. Project Scope Planning – Approaches to developing the WBS











USING GUIDELINES

some
organizations, like
the U.S.
Department of
Defense (DOD),
provide guidelines
for preparing
WBS's

ANALOGY APPROACH

review WBSs of similar projects and tailor to your project

TOP-DOWN APPROACH

start with the
largest items of the
project and break
them down

BOTTOM-UP APPROACH

start with the specific tasks

MIND MAPPING

uses branches
radiating
out from a core
idea to structure
thoughts
and ideas



2A. Project Scope Planning – WBS Dictionary

- According to the PMBOK Guide, WBS
 Dictionary is "A document that provides detailed deliverable, activity, and scheduling information about each component in the work breakdown structure."
- WBS Dictionary provides detailed information on each element of WBS, including deliverables, milestones, deliverables, scope, duration, start and end dates, required resources, costs, quality, assigned team members, etc.

Work Package ID: 1.2.3.4

Work Package Name: Design Checkout Funnel

Work Package Description: Design the complete checkout panel, including payment screens, order confirmation page, etc.

Assigned Team Member: Rob Breton

Assigned Date: 10/22/2021

Date Due: 10/30/2021

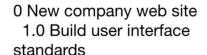
Budget: 1,000 USD

Accounting Code: XYZ- 0450

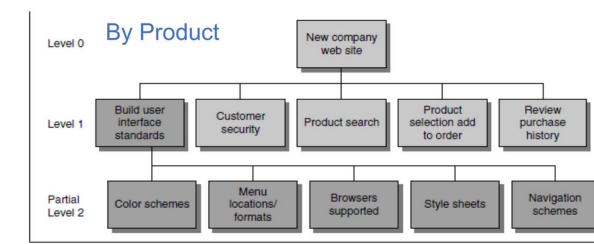


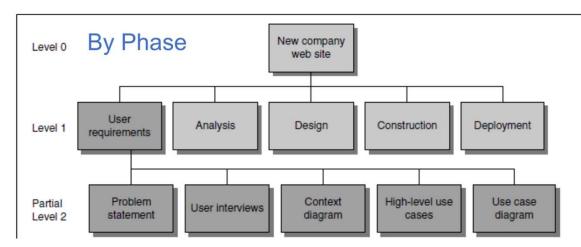
2A. Project Scope Planning – Another WBS Example





- 1.1 Color schemes
- 1.2 Menu locations/formats
- 1.3 Browsers supported
- 1.4 Style sheets
- 1.5 Navigation schemes
- 2.0 Customer security
- 3.0 Product search
- 4.0 Product selection : add to order
- 5.0 Review purchase history















Activity 4: WBS (Group activity)



- Develop a work breakdown structure, in tabular form for the Global Treps project.
- Break down the work to Level 3 or Level 4, as appropriate.
 Use the template provided and previous examples as guides.
- Be sure the WBS is based on the project charter and other relevant information.





Brewer, Jeffrey L., and Kevin C. Dittman. Methods of IT Project Management: Third Edition, Purdue University Press, 2018.

Schwalbe, Kathy. Information Technology Project Management, Cengage, 2018

A Guide to the Project Management Body of Knowledge (PMBOK guide), 7th Edition

Process Groups: A Practice Guide, 2023, Project Management Institute

