Chapter 3 PMP® Bootcamp: The Project Environment & Selection Guide				
Studer	t Name:	_ Date:		
single choser	uction: Welcome to the foundational latask, we must understand the "big pictor? What rules and structures do they on the practical.	ture": Where do projects come f	rom? How are they	
This do	ocument is structured in two parts, foll	owing the RMC methodology:		
1.	 Part 1: The Interactive Worksheet: Engages students with activities, scenarios, and simple questions to build understanding from the ground up. 			
2.	2. Part 2: The Comprehensive Study Guide: A clear, concise reference sheet that defines every required term, perfect for review and exam preparation.			
Part 1:	The Interactive Worksheet			
Let's b	uild your understanding step-by-step.			
Sectio	n 1: The Basics - What Are We Working	; On?		
	y 1: Project vs. Operations anization's work is either a project or o	ongoing operations. Let's disting	uish them.	
Stat	ement		Project or Operations?	
1. TI	ne Toyota factory produces 1,000 cars p	oer day.		
2. To	yota designs a brand-new, self-driving	electric vehicle.		
3. A	law firm processes 50 real estate closi	ngs a month.		
4. The same law firm defends a client in a one-of-a-kind major lawsuit.				
Key Co	ncept: Projects are temporary and cre	ate a unique result. Operations.		
are on	going and repetitive.			

Governance is the framework of rules, policies, and processes that direct and control an organization
It's the "how we get things done around here."

Activity 2: Who has the Power? (Organizational Structures)

The structure of an organization dictates the project manager's authority. Read the description and identify the structure: Functional, Project-Oriented, or Matrix (Weak, Balanced, or Strong).

Description	Structure			
1. The PM is the "king" with full authority. The team reports only to the PM.				
2. The Functional Manager (e.g., Director of IT) has all the power. The PM is more of a coordinator with very little authority.				
3. Power is shared. The PM and Functional Manager are equals, which often leads to conflict. The team has two bosses.				
Section 3: Why THIS Project? - The Selection Process				
Projects aren't chosen by accident. They are selected to provide business value. This ofter complex economic measures.	n involves			
Activity 3: Understanding the Money Metrics				
For the PMP exam, you need to know what these mean more than how to calculate them metric, circle what is BETTER for the business.	ı. For each			
1. Net Present Value (NPV): The total value of all future cash flows in today's money	·.			
 Higher / Lower is better. (A project with a negative NPV is a "no-go"!) 				
2. Payback Period: The time it takes for the project to earn back its initial investmen	t.			
o Shorter / Longer is better.				
3. Return on Investment (ROI): The percentage gain on the investment.				
○ Higher / Lower is hetter				

Activity 4: Conceptual Costs

Match the concept to the correct definition. It's crucial not to confuse these!

Concept	Letter	Definition	
A. Opportunity Cost		•	n spent and cannot be recovered. It when deciding whether to continue with
B. Sunk Costs		The value of the project or o	opportunity that you did not choose.
•			secutive says, "We can't stop now, we've by (Opportunity Cost / Sunk Costs).
Section 4: Your Toolk	oox & Your	Environment	
Every project has thi	ngs that he	lp you and things that constra	ain you.
_		OPAs): Internal "helpers." Thi created to make your life easi	nk templates, lessons learned, and er.
•			you must work within. Think laws, uired to use. You don't control them.
Activity 5: OPA or EE Decide if each item i		helper) or an EEF (a constrain	nt/condition).
Item			OPA or EEF?
1. Your company's	risk-averse	e culture.	
2. A project plan template from your PMO.			
3. A new governm	ent regulat	ion on data privacy.	
4. Lessons learned from a past project.			
5. An assumption	log from a	similar completed project.	

Part 2: The Comprehensive Study Guide

Use this guide for your review. The "In a Nutshell" column is your quick memory aid.

Concept	In a Nutshell	Key Details & Definitions
Operations vs. Projects	Operations = Keep the lights on. Projects = Change the business.	Operations: Ongoing and repetitive work to sustain the business. Projects: Temporary endeavors to create a unique product, service, or result.
Program Management	Managing related projects together.	A group of related projects managed in a coordinated way to obtain benefits and control not available from managing them individually.
Organizational Project Management (OPM)	The strategy for running ALL projects.	A framework that links projects, programs, and portfolios to an organization's strategic goals.
Organizational Governance	The rules for the entire company.	The overall structure and processes for how the entire enterprise is directed and controlled.
Project Governance	The rules for <i>your project</i> .	The framework for how decisions are made on a specific project, who has authority, and how stakeholders are engaged.
Functional Org	Grouped by job function (IT, Mktg).	PM has little to no power ("coordinator"). Resources loyal to their department head.
Project-Oriented Org	Grouped by projects.	PM has high to total power ("king"). Team is colocated and loyal to the project.
Matrix Org	A hybrid of Functional and	Weak Matrix: PM has low power. Balanced Matrix: PM and Functional Manager share

	Project- Oriented.	power. Strong Matrix: PM has moderate to high power.
РМО	The Project "Support System."	Supportive PMO: Provides templates/training (low control). Controlling PMO: Requires compliance (medium control). Directive PMO: Directly manages projects (high control).
ECONOMIC MEASURES		
Return On Investment (ROI)	"How much bang for our buck?"	(Net Profit / Cost of Investment) x 100. A higher ROI is better.
Present Value (PV)	"What is future money worth today?"	The value today of a future sum of money. $PV = FV / (1 + r)^n$.
Net Present Value (NPV)	The most important selection metric.	The sum of all cash inflows and outflows in today's money. Select projects with the highest positive NPV.
Internal Rate of Return (IRR)	The project's interest rate.	The discount rate at which the NPV of a project is zero. A higher IRR is better.
Payback Period	"How fast do we get our money back?"	The time it takes for the project's revenue to equal its cost. A shorter period is better.
Cost-Benefit Analysis	Comparing costs to benefits.	The result is a Benefit-Cost Ratio (BCR). A BCR > 1 is good. Higher is better.
Economic Value Added (EVA)	"Is the project truly profitable?"	The project's net profit minus the capital charge (cost of capital). Positive EVA is good.

Opportunity Cost	The road not taken.	The value of the opportunity or project that was <i>not</i> selected.
Sunk Costs	Money you can't get back.	Expended costs. This money should not be considered when making decisions to continue a project.
Law of Diminishing Returns	More is not always better.	At a certain point, adding more input (e.g., people, money) will not produce a proportional increase in output.
Working Capital	Money to run the business.	Current Assets - Current Liabilities. The funds available for day-to-day operations.
Depreciation	An asset losing value over time.	Can be Straight-Line or Accelerated. An accounting concept.
PROJECT ARTIFACTS & ENVIRONMENT		
Assumption Log	What we believe to be true.	A living document that logs all assumptions and constraints throughout the project lifecycle.
Constraints	Things that limit you.	Factors that limit the team's options, such as budget, schedule, scope, or resources.
OPAs	Internal Helpers	Processes & Procedures: Policies, methodologies. Corporate Knowledge Base: Lessons learned, historical data, configuration management databases.
EEFs	Internal or External Constraints	Internal: Company culture, infrastructure, software tools. External: Market conditions, laws, industry standards, weather.

Frequently Used Methods The way you do the work.

Can be Predictive (Waterfall), Adaptive (Agile, e.g., Scrum), or Hybrid.