

Review on Construction Project Framework



JOEL B. ORTIZ, LCE ASC

Career

- **More than 35 years experience in the field of Construction Project Management, Planning & Scheduling, Quality Assurance and Control, both in the Phils. and abroad.**

President and CEO of J3 Trainers and Consultants, Inc.

- **Accredited Safety Training Organization (DOLE)**
- **Accredited Safety Consulting Organization (DOLE)**
- **Accredited Heavy Equipment Testing Org. (DOLE)**
- **CPD Provider (PRC)**
- **Training partner (CMDf)**
- **Heavy Equipment Operator Assessment Ctr (TESDA)**

JOEL B. ORTIZ, LCE ASC

Membership to Organizations

- Project Management Institute, (PMI)
- Philippine Institute of Civil Engineers (PICE)
- American Concrete Institute (ACI)
- Association for the Advancement of Cost Engg (AACE Int'l)
formerly: American Association of Cost Engineers
- American Association for Quality (ASQ)
- Concrete Reinforcing Steel Institute (CRSI)
- Construction Specification Institute (CSI)
- Association of Safety and Health Training Organizations of the Phils. Inc. (ASHTOP)

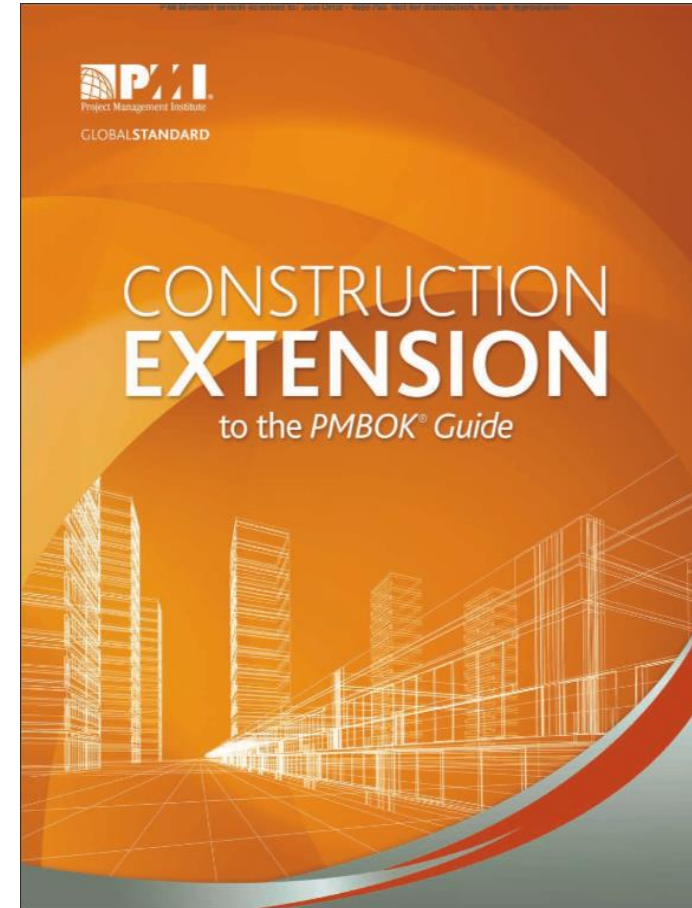
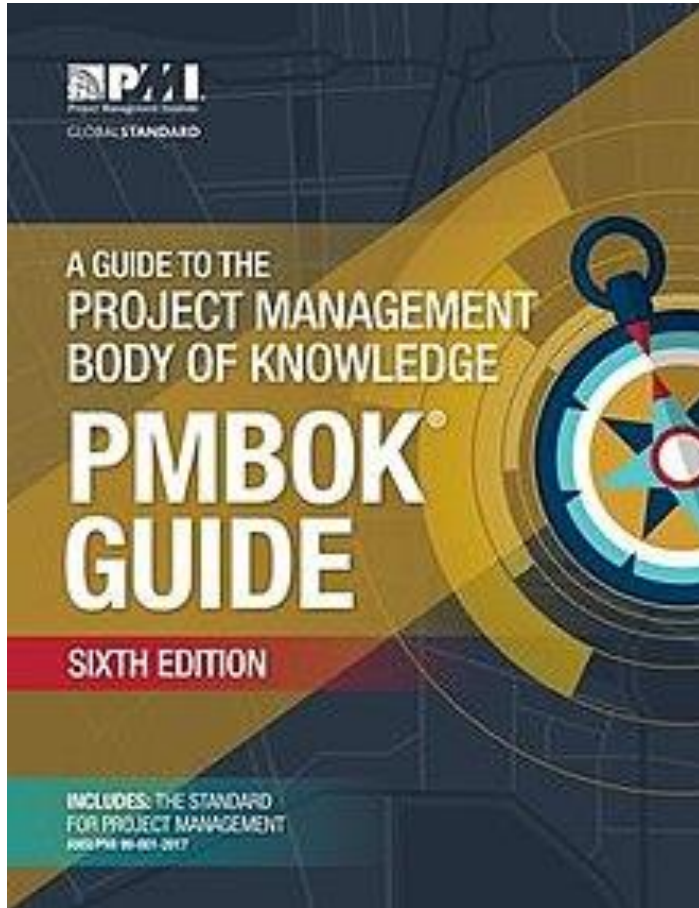


JOEL B. ORTIZ, LCE ASC

Certifications

- DOLE Accredited OSH Consultant
- Contractors Performance Evaluation System's Evaluator
- CMDF Certified Scaffolding Inspector
- CMDF Certified Trainer and Assessor
- HEO Tower Crane NCIII
- HEO Truck Mounted Crane NCIII
- HEO Rough Terrain Crane NCIII
- HEO Crawler Crane NCII
- HEO Road Grader NCII
- Driving Articulated Vehicle NCIII
- Licensed Civil Engineer (1st Place Licensure Exam '82)**





10 KNOWLEDGE AREAS

1. Project Integration Management
2. Project Scope Management
3. Project (Time) Schedule Management
4. Project Cost Management
5. Project Quality Management
6. Project (Human) Resource Management
7. Project Communications Management
8. Project Risk Management
9. Project Procurement Management
10. Project Stakeholder Management

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4 KNOWLEDGE AREAS

CONSTRUCTION EXTENSION

1. **Project Safety Management**
2. Project Environmental Management
3. Project Financial Management
4. Project Claims Management

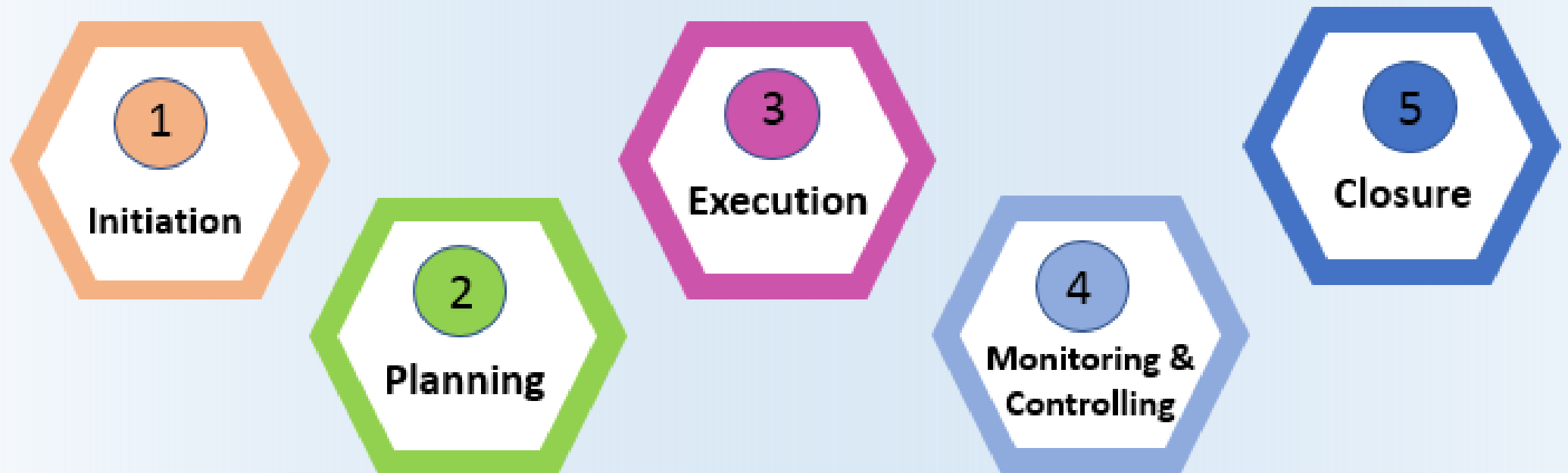
THE Project Manager's DREAM



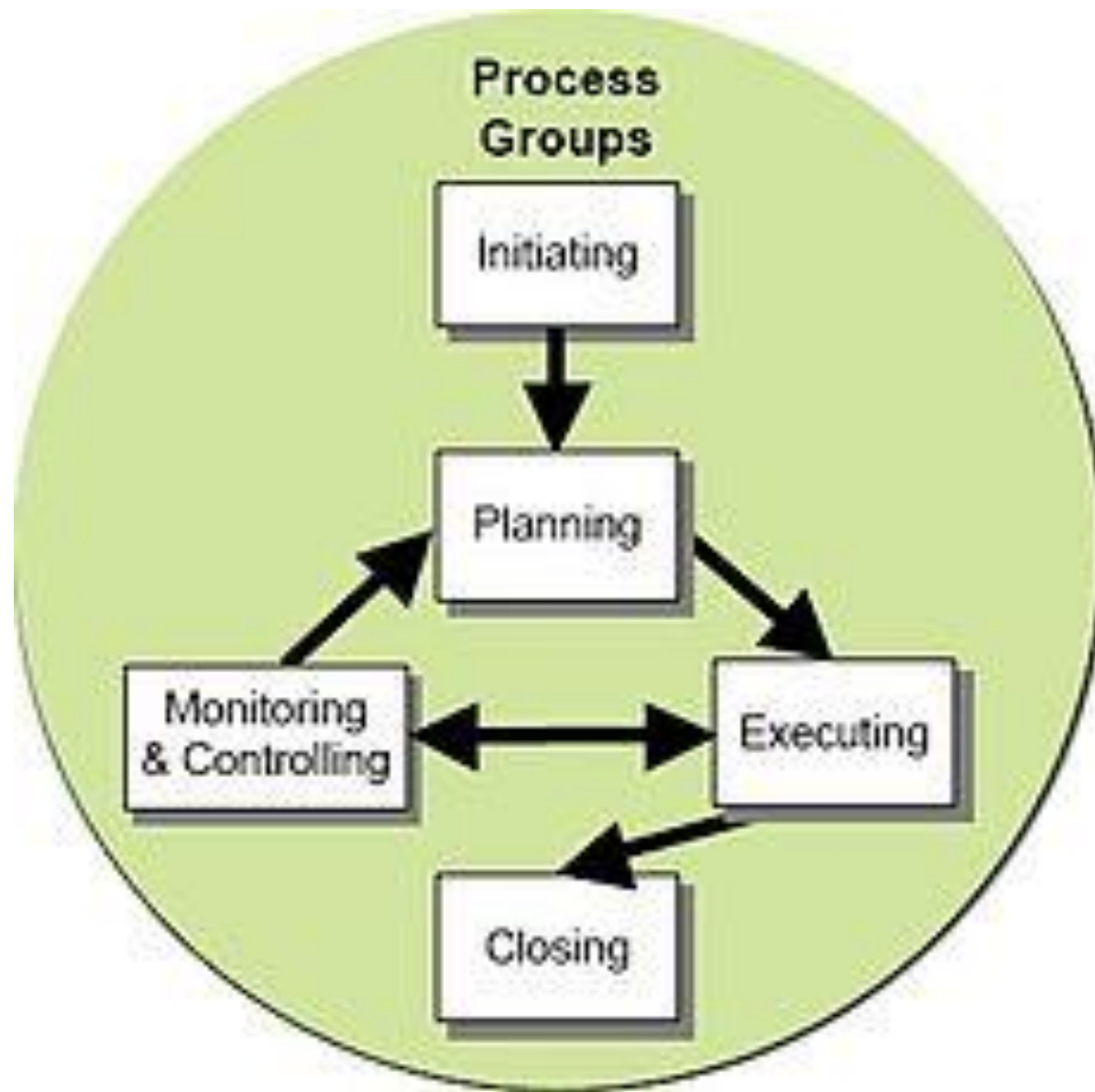
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PROJECT
MANAGEMENT
PROCESS GROUPS

Project Management Life Cycle



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PROJECT MANAGEMENT PROCESSES

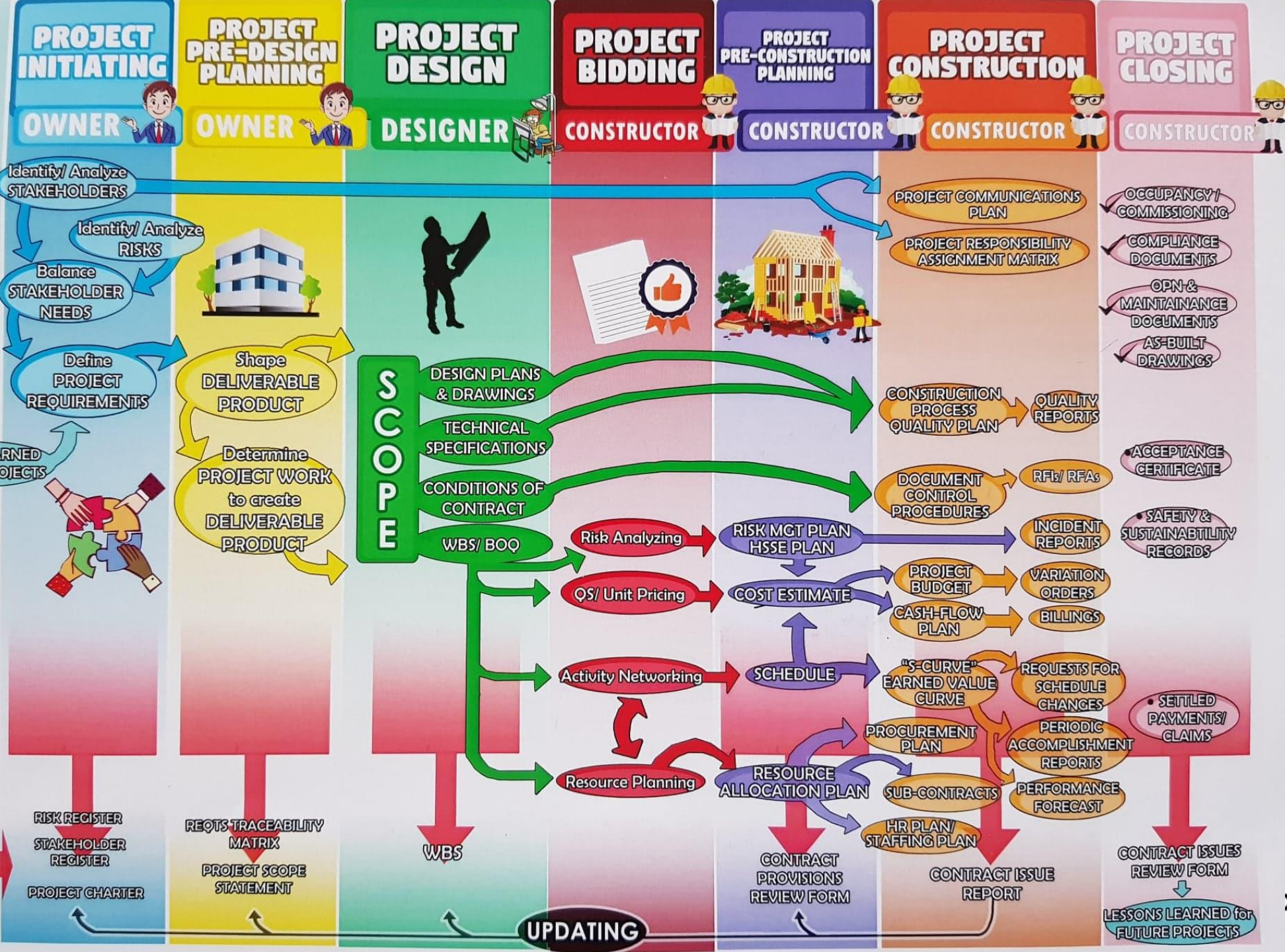
The 47 PMBOK® PROJECT MANAGEMENT PROCESSES

		Knowledge Areas														
		Integration	Scope	Time	Cost	Quality	Human Resources	Communication	Risk	Procurement	Stakeholder	Safety	Environment	Financial	Claim	
Phases	Groups															
Initiation	Initiating	1									1					
Planning	Planning	1	4	6	3	1	1	1	5	1	1	1	1	1	2	
Execution	Executing	1				1	3	1		1	1	1	1			
	Mon & Contr.	2	2	1	1	1		1	1	1	1		1	1	1	
Close-out	Closing	1								1		1		1	1	
		6	6	7	4	3	4	3	6	4	4	3	3	3	4	
											2					
											29					
											10					
											14					
											5					
											60					

PROJECT MANAGEMENT IN CONSTRUCTION "MIND MAP"



PROJECT MANAGEMENT TEMPLATES

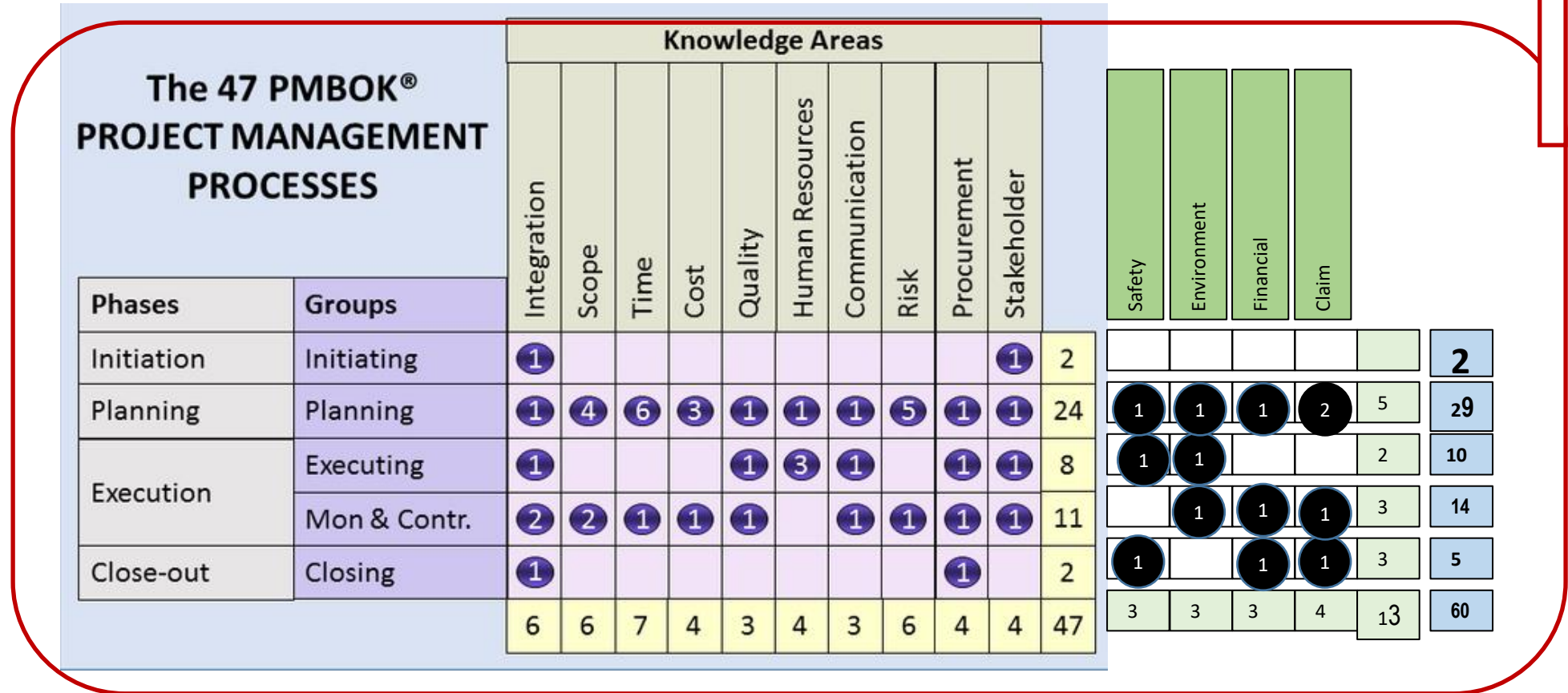




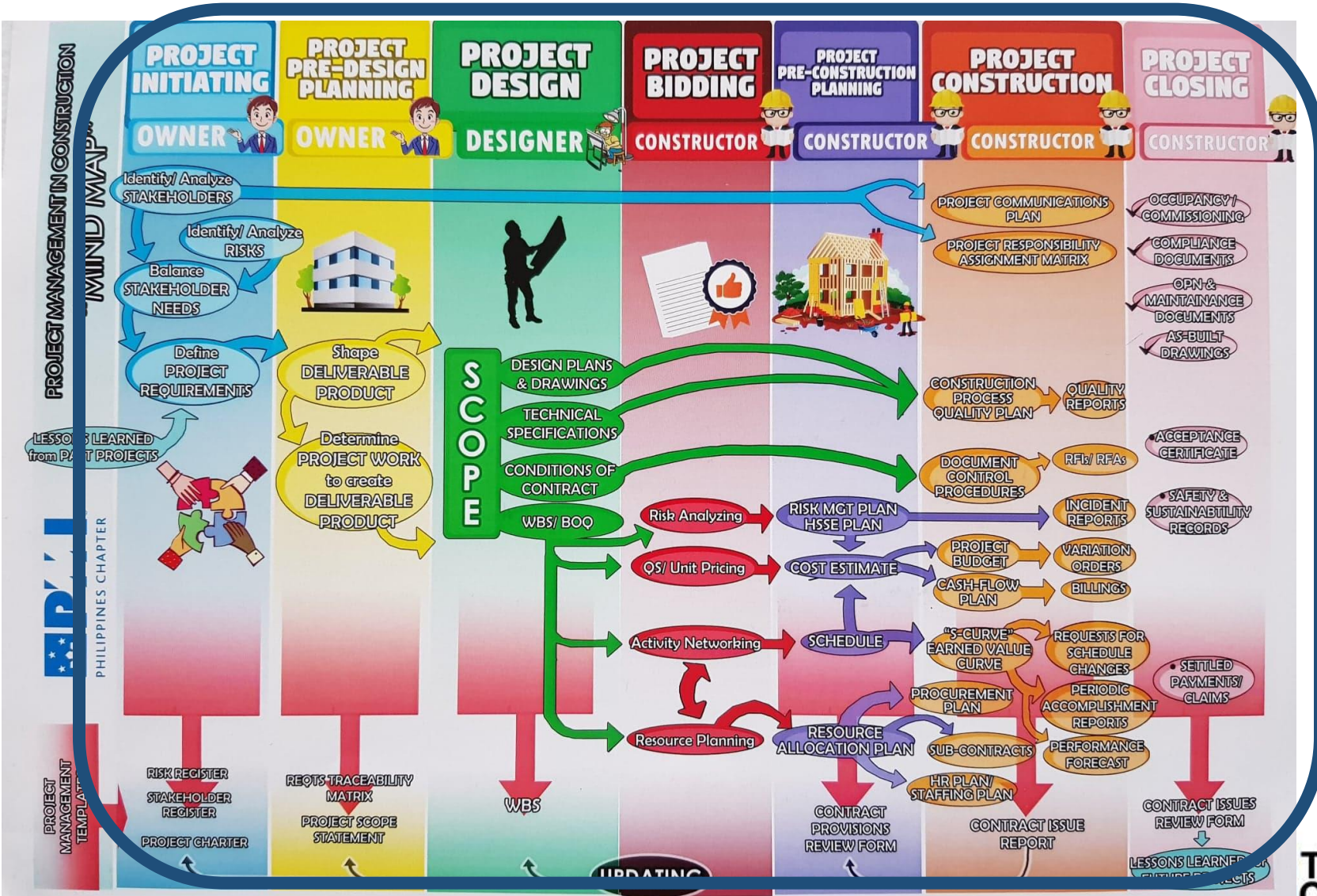
These are the typical stages in any construction project. Good planning at the beginning and anticipation of contingencies will help the entire process go much more smoothly.

PROJECT MANAGEMENT PROCESSES

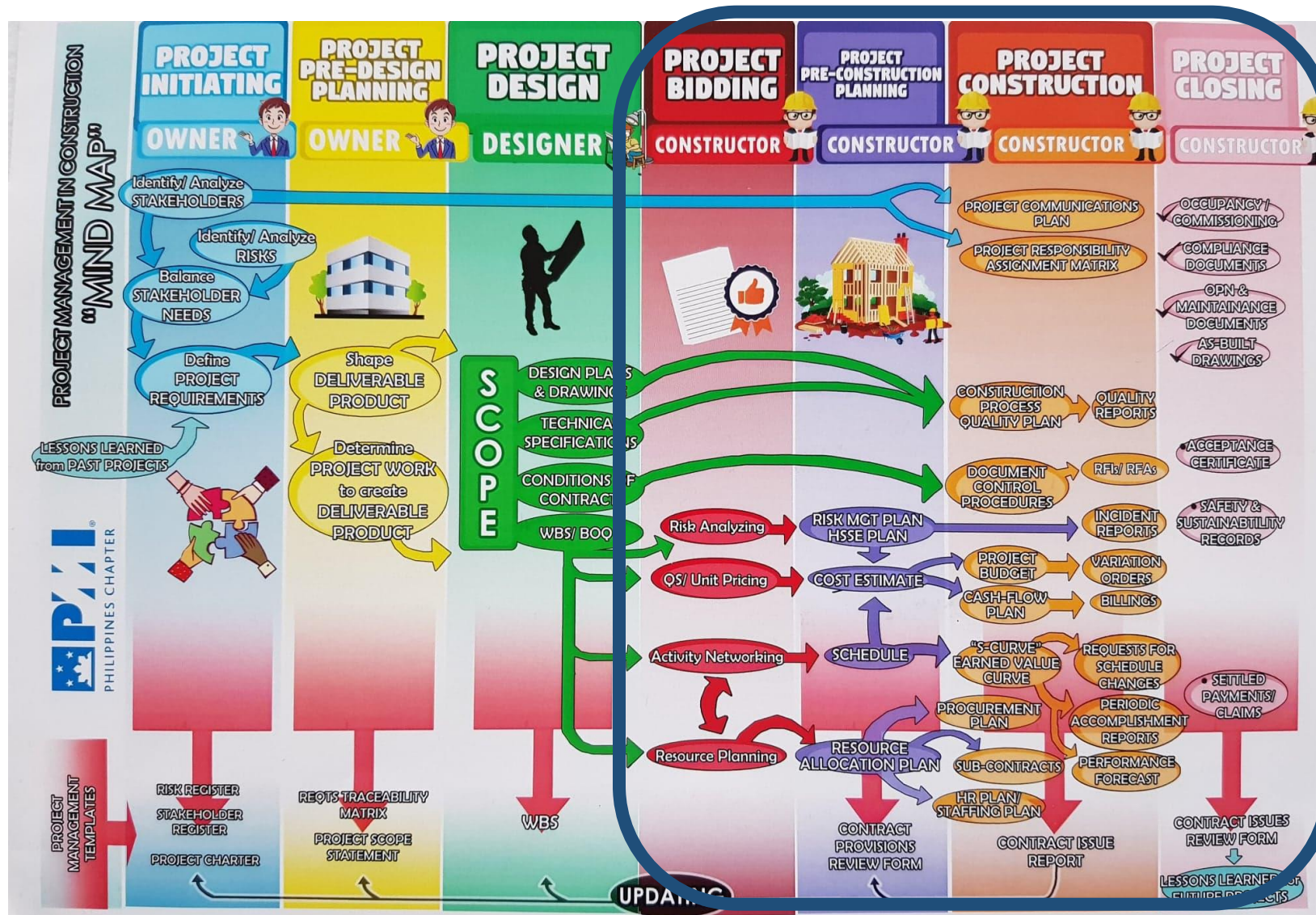
Framework of Construction PROJECT Management



Project Mngt (Owner's Perspective)



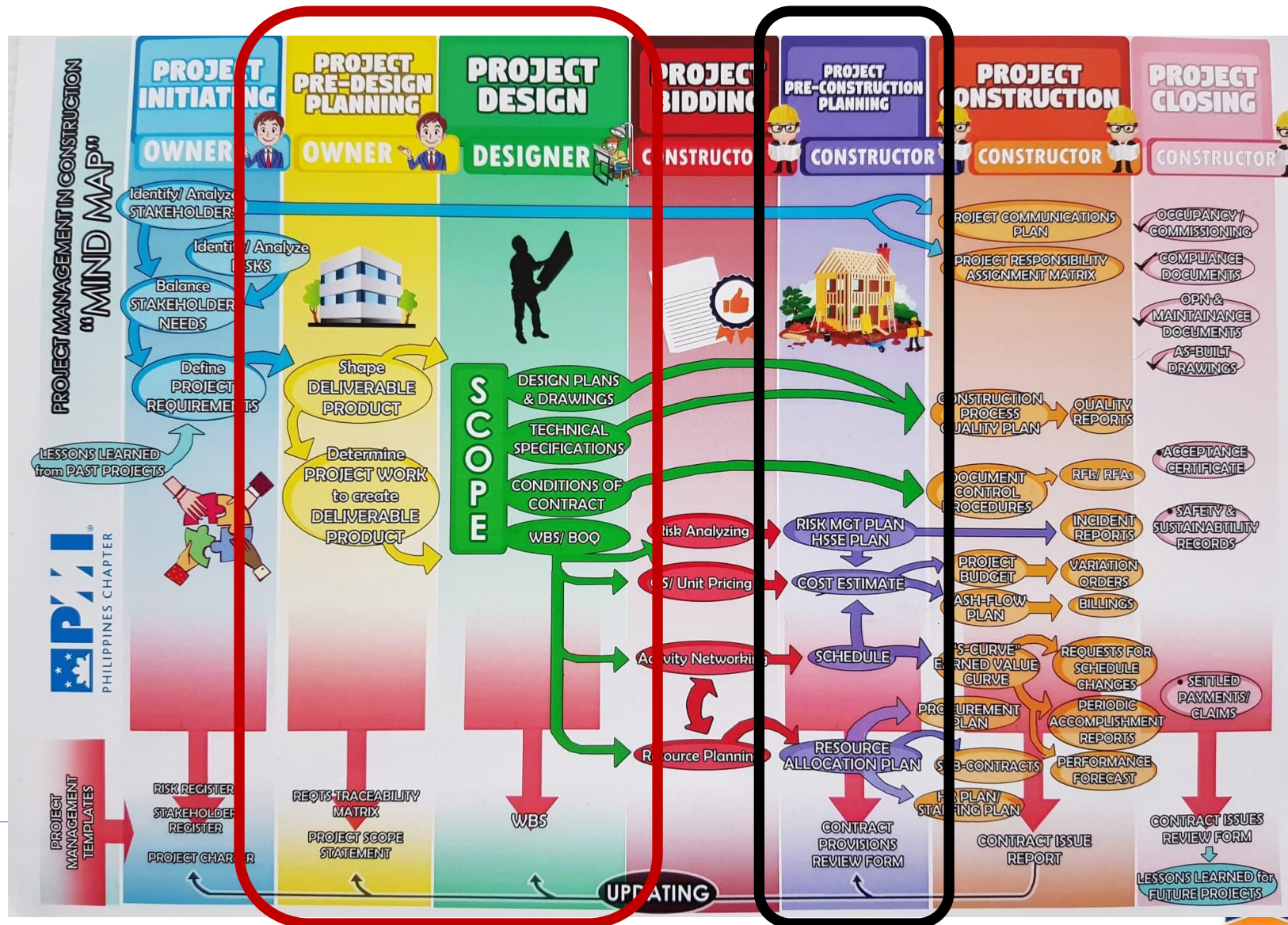
Project Mngt (Contractor's Perspective)



Construction PROJECT Management Planning and Scheduling

The 47 PMBOK® PROJECT MANAGEMENT PROCESSES		Knowledge Areas														
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Initiation	Initiating	1									1					2
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Execution	Executing	1				1	3	1		1	1				2	10
	Mon & Contr.	2	2	1	1	1		1	1	1	1	1	1	1	3	14
Close-out	Closing	1								1			1	1	3	5
		6	6	7	4	3	4	3	6	4	4	3	3	4	13	60

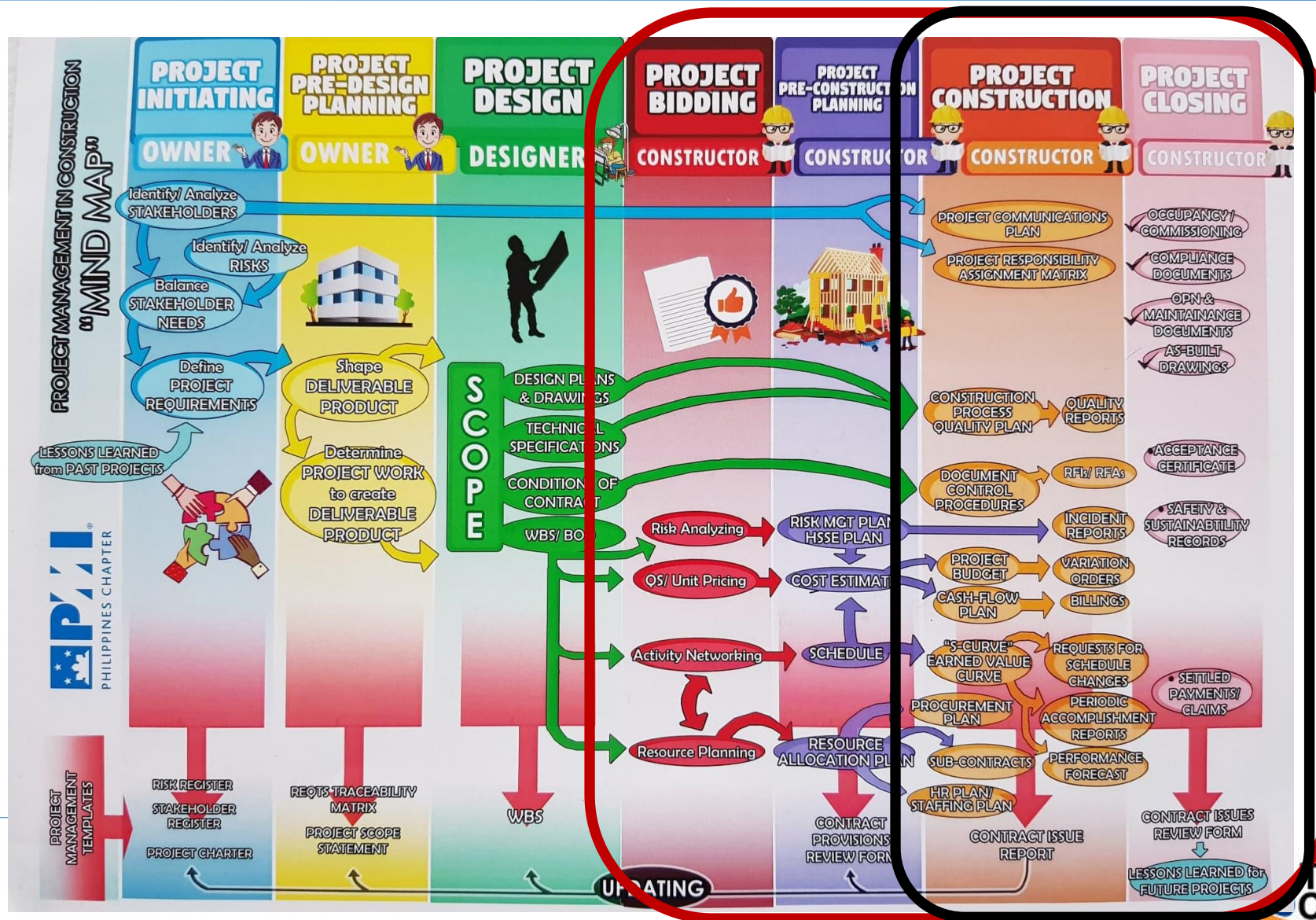
Const PROJECT Mngt Planning and Scheduling



Construction PROJECT Supervision and Contract Administration

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		6	6	7	4	3	4	3	6	4	4	3	3	4	13	60

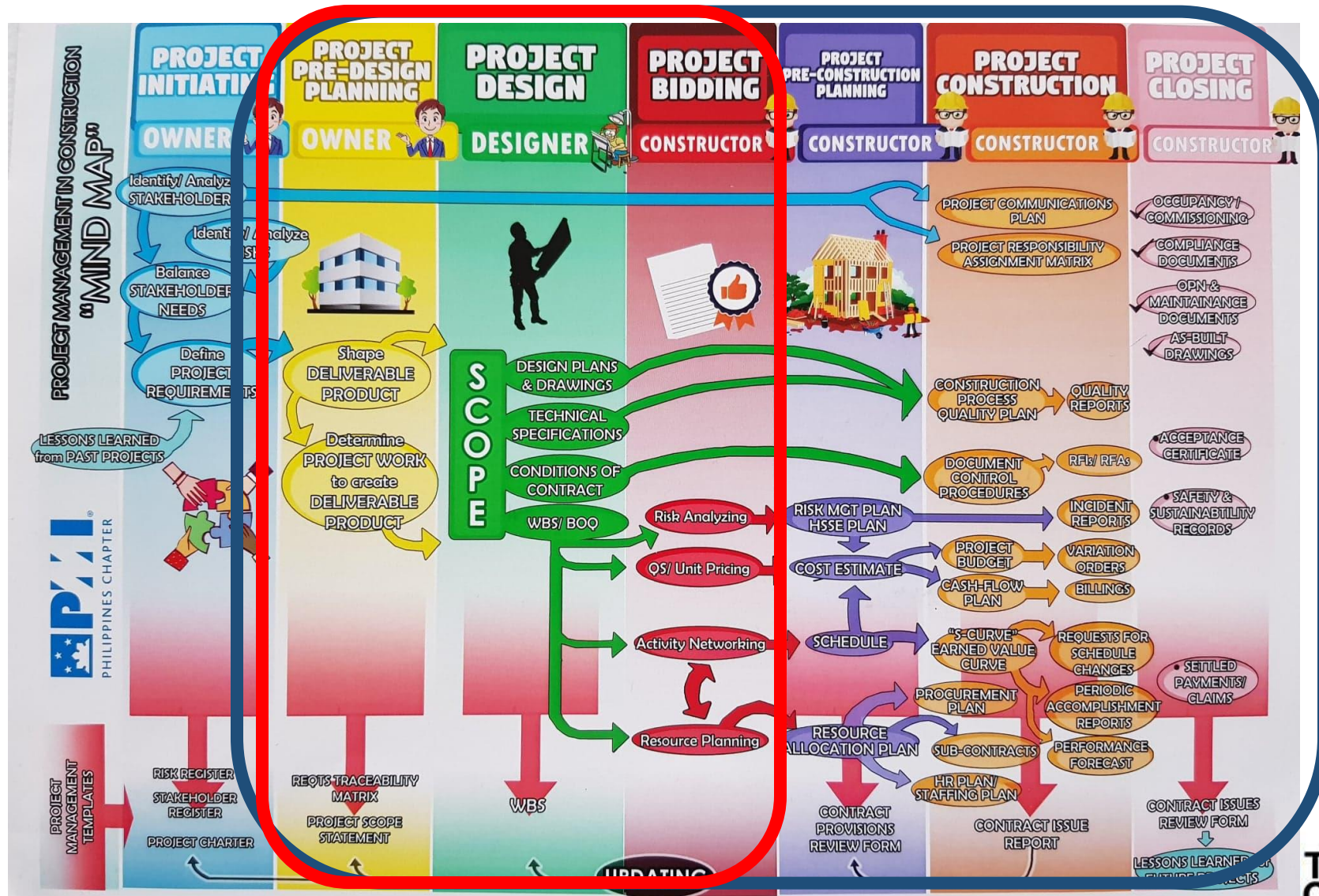
Const PROJECT Supervision & Contract Administration



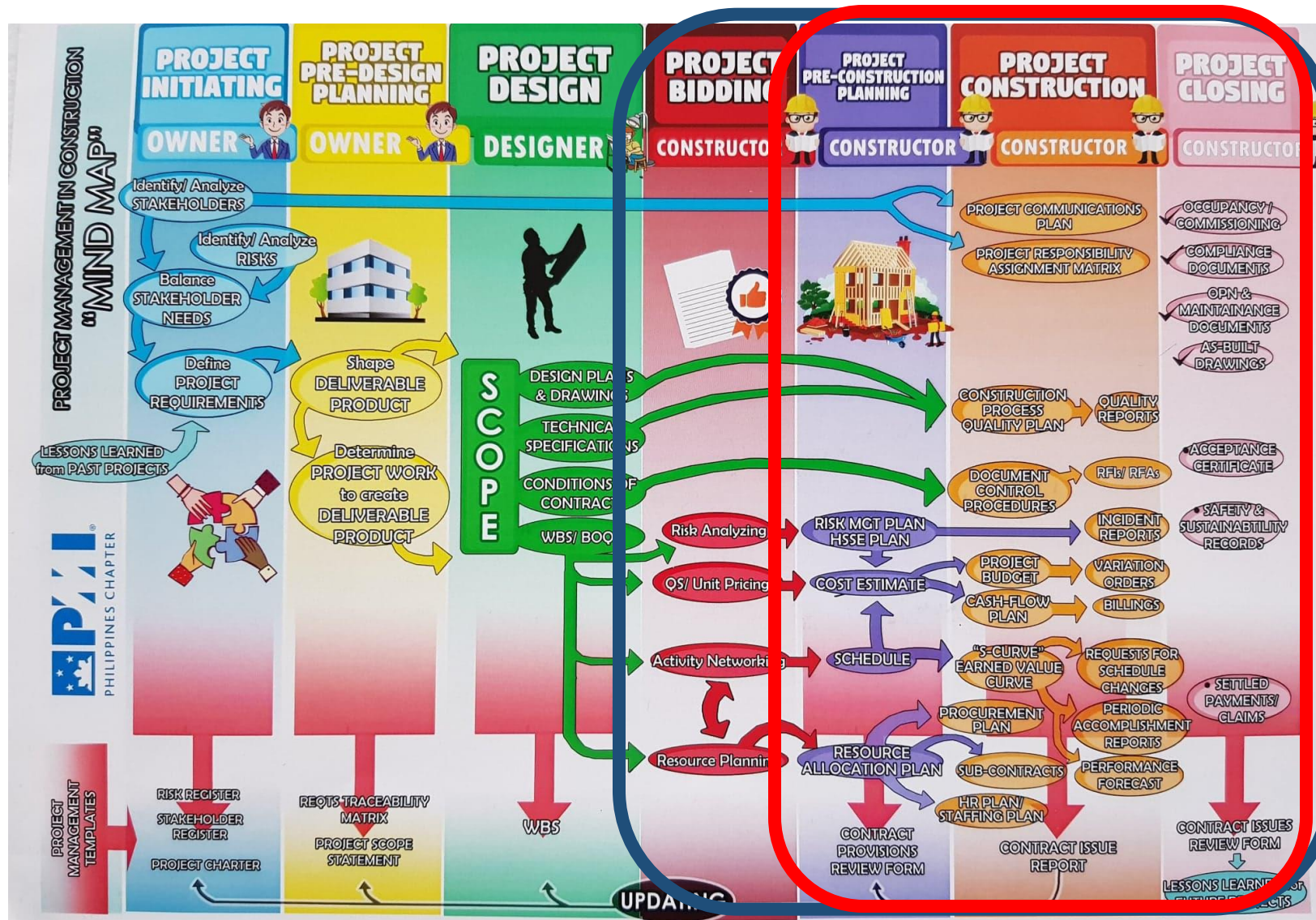
Construction PROJECT Quality Assurance and Quality Control

The 47 PMBOK® PROJECT MANAGEMENT PROCESSES		Knowledge Areas														
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Close-out	Closing	1								1			1	3	5	
		6	6	7	4	3	4	3	6	4	4	3	3	4	13	60

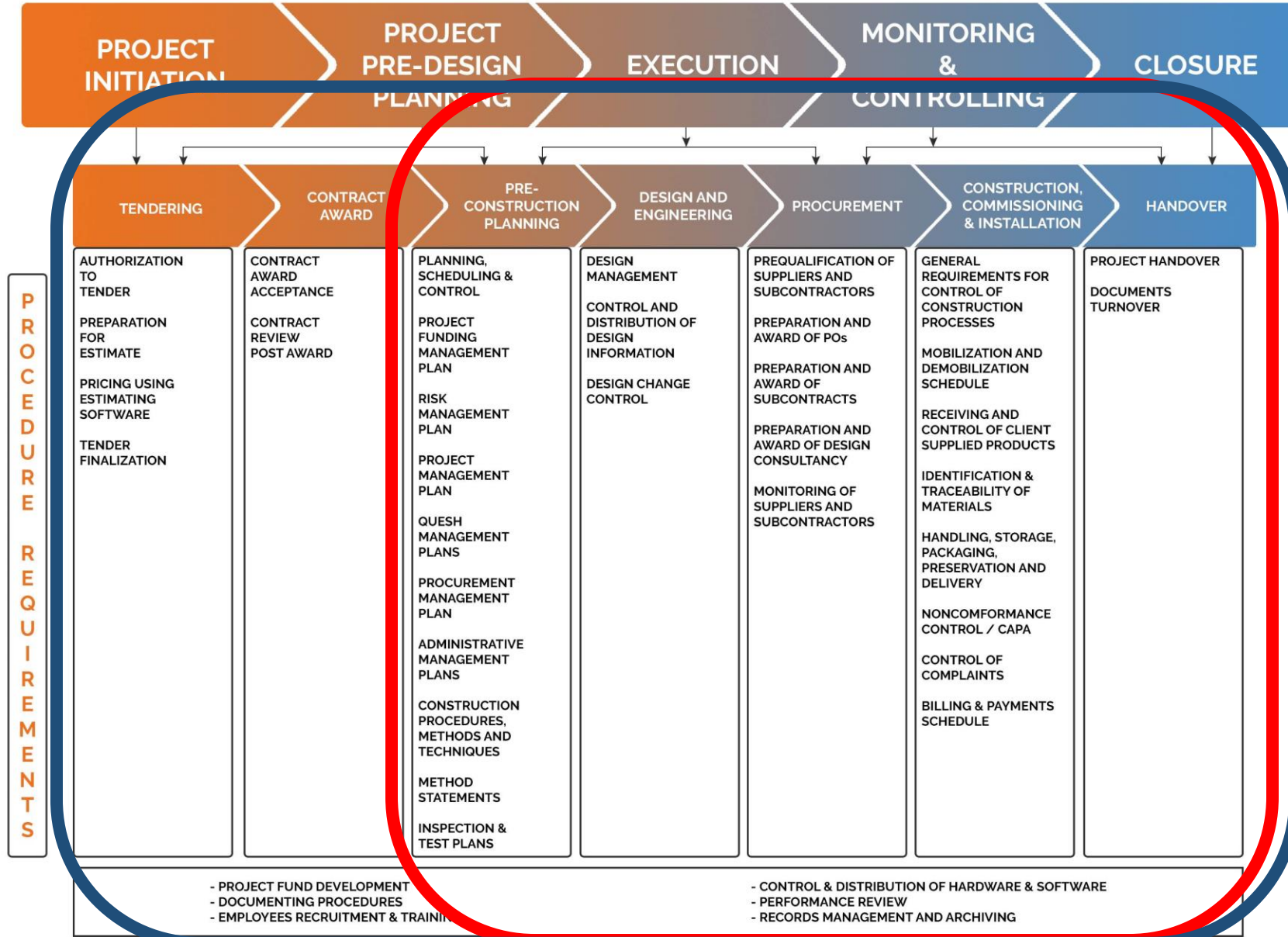
Quality Mngt (Owner's Perspective)



Quality Mngt (Contractor's Perspective)



COMPANY PROJECT MANAGEMENT SYSTEM & PROCEDURE REQUIREMENTS



Construction Project Management Plan

Construction Project Management Plan

according to the Project Management Body of Knowledge (PMBOK), is: "...a formal, approved document used to guide both project execution and project control. The primary uses of the project plan are to document planning assumptions and decisions, facilitate communication among project stakeholders, and document approved scope, cost, and schedule baselines.

Construction Project Management Plan

The CPMP typically covers topics used in the project execution and include the ff:

1. Scope (Project Overview)
2. Organization and staffing
3. Safety
4. Quality
5. Schedule
6. Cost
7. Resource

Construction Project Management Plan

Support Management Plans:

1. Risk Management Plan
2. Procurement Management Plan
3. Contract Management Plan
4. Communication Management Plan
5. Quality Management Plan
6. Safety Management Plan
7. Environmental Management Plan

Construction Project Management Plan

Support Management Plans:

1. Risk Management Plan
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- 5. Quality Management Plan**
6. Safety Management Plan
7. Environmental Management Plan

Quality Management



Quality Management plan Requirement , responsibility during project life phases

Project phase	Requirement	Responsibility
Feasibility Studies	To focus & Define Quality target	The Owner
Design	Specify Quality	The Designer
Planning	Quality Assurance	The Owner
Construction	Quality Control	The Contractor
Delivery	Verify of Quality	The Owner

Construction Project Quality

These factors reflect
good quality of
work done

Meet tech specs

Deliver on schedule

Costs within budget

Work without dispute

Four pillars of Construction Quality Management

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LEARNING

KNOWLEDGE

EXPERIENCE

SKILLS

ABILITY

COMPETENCE

TRAINING

GROWTH

thanks