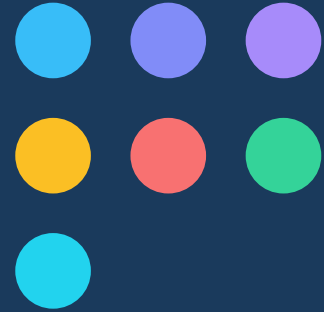


# Project Lifecycle (PLC) Framework

Information Technology Department



**7 Phases  
to Project  
Success**

# Why PLC Matters: Training Objectives

## What This Framework Delivers



### Consistent Delivery

A single, repeatable framework for all ITD projects—small or large.



### Common Language

Shared terminology across teams reduces miscommunication and rework.



### Living Framework

Flexible and adaptable—designed to evolve with business needs.



### Minimize Overhead

Right-sized processes that match project complexity.

## What You'll Gain

### Risk Management

Identify and mitigate risks early—before they become crises.

### Scope & Cost Control

Keep projects on time, on budget, and in scope.

### Stakeholder Alignment

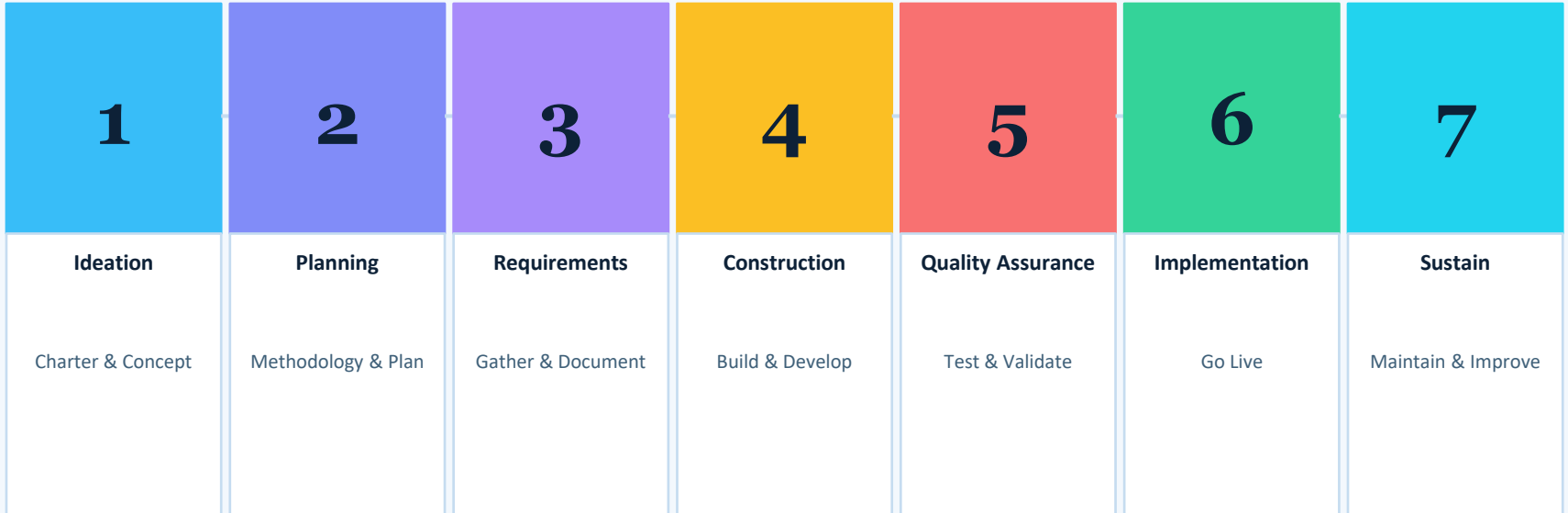
Ensure customers and sponsors stay engaged and informed.

### Quality Outcomes

Structured QA gates prevent defects from reaching production.

# Project Lifecycle at a Glance

GOVERNANCE — Decision-making framework that spans the entire lifecycle



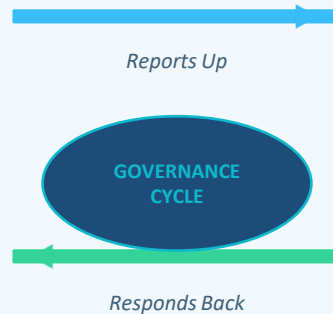
*The success of each phase directly determines the quality of the next — and the overall project outcome.*

# Governance: The Decision-Making Framework

*A logical management framework for making project decisions — the leadership structures and processes that ensure project success*

## PROJECT TEAM REPORTS

- Deliverables status
- Change order requests
- Issues & risk updates
- Budget / Time / Scope variance
- Project status reports
- Requests for sign-off



## GOVERNANCE RESPONDS

- ← Approval of deliverables
- ← Authorization to proceed
- ← Project decisions
- ← Issue mitigation guidance
- ← Budget / Time / Scope direction
- ← Sign-off / Project close-out

Phase 1

# Ideation

Transform ideas into approved, actionable project charters



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**Ideation**

# Ideation: Approach & Key Activities

## What Is Ideation?

The conceptual phase where ideas for improvement are captured and evaluated. Like a modern suggestion box — ideas are documented and assessed for feasibility before committing resources.

## Key Activities

- Identify business drivers and project objectives
- Define high-level scope and set project direction
- Establish priority of the project and within the project
- Identify and engage key stakeholders
- Establish executive sponsorship
- Perform feasibility studies when necessary
- Obtain approvals for charter, proposal, funding & resources
- Assign the Project Manager

## Outcome

# Approved Project Charter

## Estimate Includes

- Time to achieve the output
- Resources required
- Key stakeholder identification
- High-level risk assessment

## When Does Ideation End?

- Sponsor approval obtained
- Project Manager assigned
- Project charter signed off

# Project Charter: What It Is — and What It Isn't

## THE CHARTER IS

### Commitment Before Work Begins

Must be approved BEFORE the project officially starts.

### Goal Alignment Document

Articulates what the project is intended to deliver.

### Stakeholder Agreement

Identifies owners, sponsors, and resources—creating accountability.

### Scope Boundary Setter

Establishes what is in scope and what is not.

### Organizational Visibility

Makes the project visible and official to the entire organization.

## THE CHARTER IS NOT

### ✗ A Project Plan

It doesn't define tasks, timelines, or work breakdowns.

### ✗ A Requirements Document

It doesn't capture detailed functional or system needs.

### ✗ A Design Document

It doesn't specify technical solutions or architecture.

### ✗ A Proposal

It's not a sales pitch — it's a commitment and alignment tool.

Phase 2

# Planning

Define how the work will be done — before the work begins



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Planning

# Planning: Approach & Key Components

Planning ensures the team agrees on HOW the project will be executed. A well-planned project is far less likely to run over budget, miss deadlines, or fail to meet requirements.

## Methodology

- Waterfall — sequential phases
- Agile — iterative sprints
- Fasttrack — lightweight/small projects

## Milestones

- Key task completion dates
- Deliverable hand-offs
- Kick-off and Go-Live dates

## Resource Plan

- Roles & responsibilities
- FTE vs. part-time allocation
- Backup plan for key resources

## Issues & Risks

- Identify and log all risks
- Assign confidence levels
- Define mitigation plans

## Change Mgmt

- Change request process
- Approval workflow
- Risk/impact assessment

## Training Plan

- Train-the-trainer approach
- End-user training schedule
- Material development

# Project Essentials Matrix

*Not all projects are equal. Use this matrix to determine what's required based on project size and cost.*

Requirement	SMALL (up to \$25K)	MEDIUM (up to \$100K)	LARGE (over \$100K)
Requirements Document	✓	✓	✓
Project Plan	—	✓	✓
Methodology	<i>Fasttrack</i>	<i>Waterfall / Agile / Fasttrack</i>	<i>Waterfall / Agile</i>
Proposal Timing	Planning phase	Before Requirements	After Requirements
Steering Committee	—	<i>Recommended</i>	<b>Required</b>
Communication	Email + Meeting Notes	Meeting Notes + Weekly Meetings	Meeting Notes + Weekly + Steering Committee Meetings

Phase 3

# Requirements

Define, document, and validate what the solution must do



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Requirements

# Requirements: Approach & Entry/Exit Criteria

The purpose of this phase is to determine the requirements and produce formal documentation used in all subsequent phases. Requirements define scope boundaries — what's in and what's out.

## Key Activities

- Elicit raw requirements from subject matter experts and end users
- Refine business requirements based on user feedback and sessions
- Develop models, diagrams, and prototypes as required
- Define functional and non-functional (system) requirements
- Set scope boundaries — explicitly document what is in and out of scope
- Document constraints and assumptions

## Entry Criteria

- Approved Project Charter
- Project plan & milestones defined
- Project team & participants identified

## Deliverables / Artifacts

- Requirements document
- System diagrams & models
- Prototypes / screen mockups
- Supporting documentation

## Exit Criteria

- Approved requirements document
- Updated project plan & budget
- Updated risks & issues list

# Requirements Toolkit

Standard tools and artifacts used during the Requirements phase:

## Diagrams & Models

- Context Diagram
- Use Case Diagram
- System Architecture
- Process Flow Diagram
- Screen Mockups (Balsamiq)
- State & Activity Diagrams

## Document Templates

- Requirements Document Template
- Functional Requirements Template
- Meeting Agenda Template
- ASG/ISG Applicability Matrix

## Software Tools

- Microsoft Word
- Microsoft Visio
- Balsamiq (mockups)
- Microsoft SharePoint Lists
- Microsoft Forms

## Infrastructure Artifacts

- Logical Network Diagram
- Physical Network Diagram
- Rack Diagram
- Data Center Overhead Diagram

## Project Foundation Docs

- Approved Project Charter
- Project Plan & Resource List
- Risk & Issues Register
- Meeting Minutes

## Training & Learning

- Intro to Requirements Gathering
- YouTube diagram tutorials
- SumTotal LMS (alameda.sumtotal.host)
- CA-PMF Templates (CDT)

Phase 4

# Construction

Build, develop, and unit-test the project solution



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**Construction**

# Construction: Key Steps & Phase Gate Criteria

Construction is where the project solution is designed, built, and tested. The team assembles all components, validates them against requirements, and prepares for deployment.

## Construction Steps

- 1 Review Input Docs** Review approved requirements and design documents before building.
- 2 Functional Design Review** Share a logical view of how requirements will be implemented.
- 3 Build Solution** Develop the application, system, or solution based on design.
- 4 Unit Testing** Validate each developed component against functional design.
- 5 Demo** Live demonstration of product features and core user workflows.
- 6 Deployment Planning** Define the sequence of steps to deliver changes to production.
- 7 Rollback Planning** Define steps to revert changes if deployment fails.

## Entry Criteria

- Project plan & methodology approved
- Business requirements approved
- Functional requirements approved
- Non-functional & security requirements approved

## Key Deliverables

- Unit & system-tested solution
- Revised architecture & design assets
- Draft build & deploy instructions
- Draft rollback procedures

## Exit Criteria

- Integrated project solution complete
- Build & deploy instructions finalized
- QA team ready for handoff

Phase 5

# Quality Assurance

Validate that the solution meets ALL requirements before go-live



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Quality Assurance

# Quality Assurance: Testing Strategy & Artifacts

QA prevents defects from reaching production. Every component — functional, non-functional, and performance — must be validated before UAT sign-off.

1 Prepare Test Plans ›

2 Set Up Test Environments ›

3 Execute Test Scripts ›

4 Log & Track Defects ›

5 Certify UAT Release ›

6 Obtain User Sign-Off

## Test Plan

- Scope, approach, resources, schedule
- Test items and features to be tested
- Entry and exit criteria defined
- Who does each task and when

## Defect Tracker

- Logs all defects found during testing
- Used from functional testing through UAT
- Lets PM monitor project readiness
- Tracks defect severity and resolution

## Test Environment

- Controlled replica of production
- Isolates testing from external factors
- Must mirror production as closely as possible

## Performance Testing Types

- Load Test — simulate normal routine workload to find weaknesses
- Stress Test — measure the maximum load the system can sustain
- Longevity Test — validate long-term performance under sustained load

## User Acceptance Testing (UAT)

- Final round of testing before production deployment
- High-level business scenario validation by product owners
- Business customers are the primary stakeholders
- Successful completion signals the end of the QA phase

Phase 6

# Implementation

Where rubber meets the road — seamless migration to production



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**Implementation**

# Implementation: Go-Live Planning & Execution

Implementation is the controlled migration of the solution to production. The goal is a seamless cutover with minimal disruption and a clear support plan in place.

## Change & Approval Management

- Obtain all required change management approvals
- Follow organizational change process for production migration
- Ensure all stakeholders have signed off before cutover

## Cutover Plan

- Ramp Down — pre-migration preparation tasks and checkpoints
- Cutover — step-by-step migration execution sequence
- Ramp Up — post-migration validation and recovery steps

## Communication & Marketing

- Notify all affected stakeholders before, during, and after go-live
- Develop a marketing/awareness plan for end-user adoption
- Create user guides and quick-reference materials

## Post-Implementation Support

- Establish a production support plan (hypercare period)
- Define escalation paths for post-launch issues
- Transition support to the maintenance team with documentation

Phase 7

# Sustain

Close the project and transition to ongoing operations



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Sustain

# Sustain: From Project Closure to Ongoing Operations

The project has been delivered and is now in production. Sustain closes the project formally and transitions ownership to the operations/maintenance team.

## Post-Implementation Review

- Evaluate whether the original project objectives were met
- Gather team and stakeholder feedback on what worked and what didn't
- Document lessons learned for future projects
- Confirm all deliverables were accepted and signed off

## Transition & Knowledge Transfer

- Provide detailed technical documentation to the maintenance team
- Deliver training on configuration, administration, and troubleshooting
- Ensure support runbooks are in place before project closes
- Formal handoff meeting with operations team

## Ongoing Change Management

- Review new business objectives that may drive future enhancements
- Any new capabilities re-enter the lifecycle at Ideation
- Maintain a product backlog for future release planning

## Project Closure Checklist

- All deliverables accepted and documented
- Lessons learned captured and archived
- Resources released back to the organization
- Project formally closed in project tracking system

*A well-sustained project becomes the foundation for the next great idea — feeding back into Ideation.*

# Learning Resources & Tools

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*Bookmark these resources to support your PLC journey:*

## Learning Management

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- SumTotal LMS — [alameda.sumtotal.host](http://alameda.sumtotal.host) (training courses and completions)
- Microsoft Planner Help & Learning — [microsoft.com](http://microsoft.com)

## Microsoft 365 Tools

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- Microsoft Bookings — scheduling and resource management
- Microsoft SharePoint Lists — project tracking and data
- Microsoft Forms — surveys, data collection, and feedback
- Microsoft Planner — task assignment and milestone tracking

## Project Management Standards

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- Waterfall & Agile | Project Resources — [ca.gov](http://ca.gov) (state project resources)
- PMBOK Guide — Project Management Body of Knowledge (PMI)
- CDT CA-PMF Templates — California Project Management Framework templates

## On-the-Job References

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- PLC Phase Checklists — available in SharePoint (entry/exit criteria per phase)
- Requirements Document Template — functional and non-functional requirements
- Project Charter Template — standardized charter for all project sizes
- Change Order Template — formal scope change documentation

# Questions?

Let's make every project a success.

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Information Technology Department  
Project Lifecycle (PLC) Framework



7 Phases  
Completed