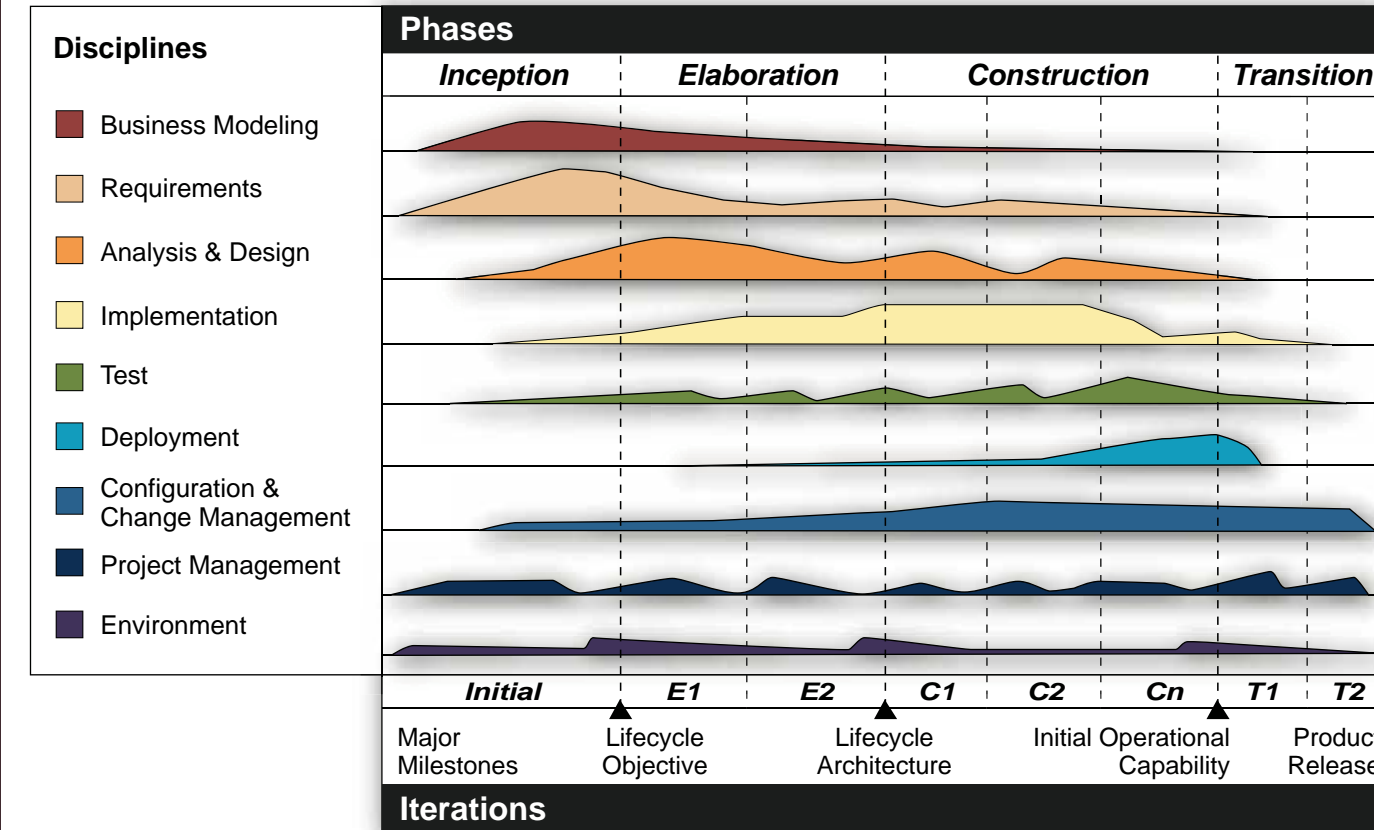
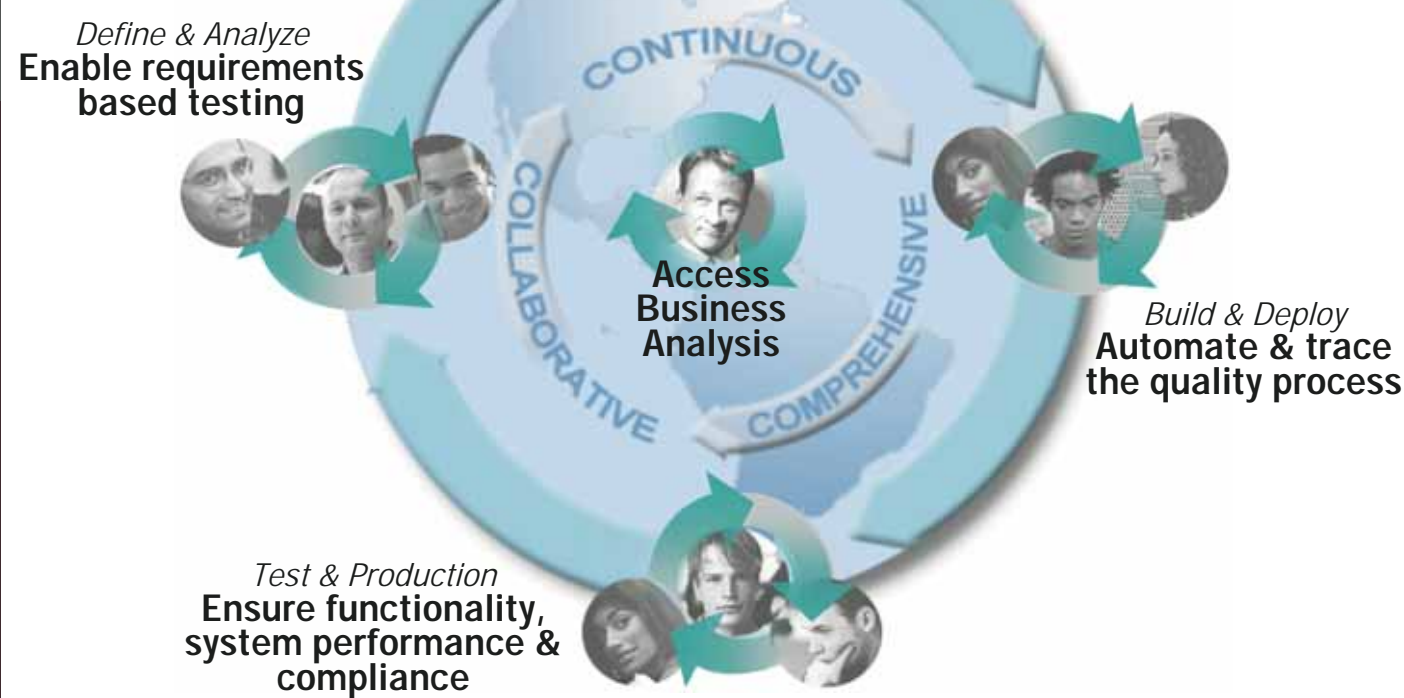


BUSINESS MODELING



Assess Business Status
Assess Target Organization
Set and Adjust Objectives
Identify Business Goals and KPIs
Business Architectural Analysis
Capture a Common Business Vocabulary
Maintain Business Rules

Potential Work Products
• BUSINESS VISION
• BUSINESS GOAL
• BUSINESS USE CASE MODEL
• SUPPLEMENTARY BUSINESS SPECIFICATION
• BUSINESS RULE
• BUSINESS GLOSSARY
• BUSINESS ANALYSIS MODEL
• BUSINESS ARCHITECTURE DOCUMENT
• BUSINESS DEPLOYMENT MODEL
• BUSINESS DESIGN MODEL
• BUSINESS WORKER
• BUSINESS EVENT
• BUSINESS ENTITY
• REVIEW RECORD

Explore Process Automation
Set and Adjust Objectives
Define Automation Requirements
Construct Business Architectural Proof-of-Concept

Potential Work Products
• BUSINESS VISION
• ANALYSIS MODEL
• SUPPLEMENTARY SPECIFICATIONS
• USE CASE MODEL
• BUSINESS ARCHITECTURAL PROOF-OF-CONCEPT

Describe Current Business
Assess Target Organization
Set and Adjust Objectives
Identify Business Goals and KPIs
Find Business Actors and Use Cases
Business Architectural Analysis
Capture a Common Business Vocabulary
Maintain Business Rules
Functional Area Analysis

Potential Work Products
• BUSINESS VISION
• TARGET ORGANIZATION ASSESSMENT
• BUSINESS GOAL
• BUSINESS ANALYSIS MODEL
• BUSINESS ARCHITECTURE DOCUMENT
• BUSINESS DEPLOYMENT MODEL
• BUSINESS DESIGN MODEL
• BUSINESS GLOSSARY
• BUSINESS RULE

Develop Domain Model
Capture a Common Business Vocabulary
Maintain Business Rules
Business Architecture Analysis
Detail a Business Entity
Review the Business Analysis Model

Potential Work Products
• BUSINESS GLOSSARY
• BUSINESS RULE
• BUSINESS ARCHITECTURE DOCUMENT
• BUSINESS DESIGN MODEL
• BUSINESS DEPLOYMENT MODEL
• BUSINESS ANALYSIS MODEL

Define Business
Identify Business Processes
Refine Business Process Definitions
Design Business Process Realizations
Define Business Operations
Refine Roles and Responsibilities

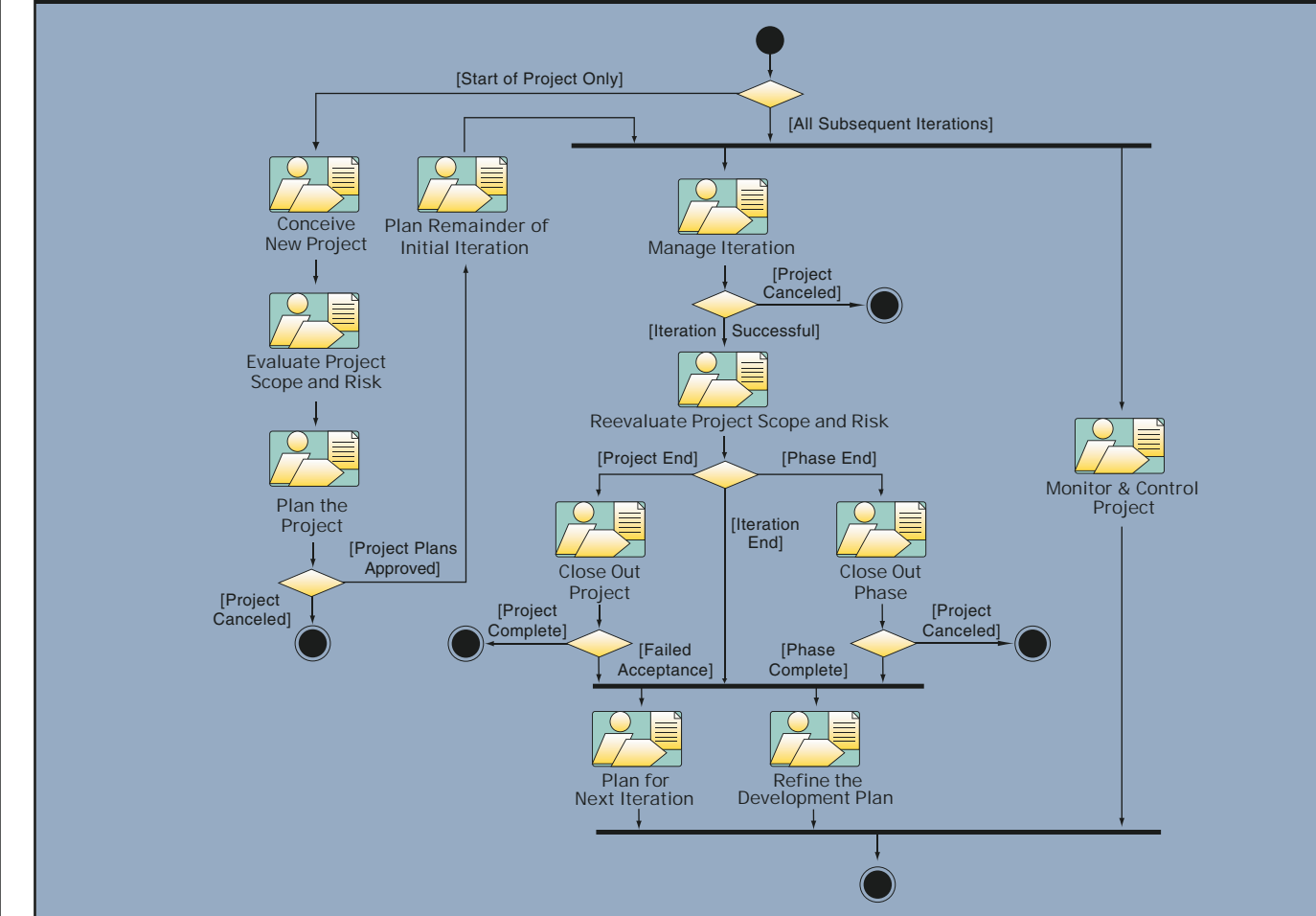
Potential Work Products
• BUSINESS VISION
• BUSINESS GOAL
• BUSINESS USE CASE MODEL
• SUPPLEMENTARY BUSINESS SPECIFICATION
• BUSINESS ANALYSIS MODEL
• BUSINESS ARCHITECTURE DOCUMENT
• BUSINESS DEPLOYMENT MODEL
• BUSINESS DESIGN MODEL
• BUSINESS GLOSSARY
• BUSINESS RULE

REQUIREMENTS

KEY PRINCIPLES FOR BUSINESS-DRIVEN DEVELOPMENT

- A** dapt the process
- B** alance stakeholder priorities
- C** ollaborate across teams
- D** emonstrate value iteratively
- E** levate the level of abstraction
- F** ocus continuously on quality

PROJECT MANAGEMENT



Analyze the Problem
Capture a Common Vocabulary
Find Actors and Use Cases
Develop Vision
Develop Requirements Management Plan

Potential Work Products
• GLOSSARY
• USE CASE MODEL
• REQUIREMENTS ATTRIBUTES
• VISION
• REQUIREMENTS MANAGEMENT PLAN

Understand Stakeholder Needs
Capture a Common Vocabulary
Elicit Stakeholder Requests
Develop Vision
Find Actors and Use Cases
Develop Supplementary Specification
Manage Dependencies

Potential Work Products
• GLOSSARY
• USE CASE MODEL
• REQUIREMENTS ATTRIBUTES
• VISION
• REQUIREMENTS MANAGEMENT PLAN
• STAKEHOLDER REQUESTS
• STORYBOARD
• SUPPLEMENTARY SPECIFICATION

Define the System
Develop Vision
Capture a Common Vocabulary
Find Actors and Use Cases
Develop Supplementary Specifications
Manage Dependencies

Potential Work Products
• GLOSSARY
• USE CASE MODEL
• REQUIREMENTS ATTRIBUTES
• VISION
• REQUIREMENTS MANAGEMENT PLAN
• SUPPLEMENTARY SPECIFICATION

Manage the Scope of the System
Develop Vision
Manage Dependencies
Prioritize Use Cases

Potential Work Products
• USE CASE
• REQUIREMENTS ATTRIBUTES
• SOFTWARE REQUIREMENTS SPECIFICATION
• SOFTWARE REQUIREMENT
• SUPPLEMENTARY SPECIFICATION

Manage Changing Requirements
Structure the Use-Case Model
Manage Dependencies
Review Requirements

Potential Work Products
• GLOSSARY
• USE CASE MODEL
• REQUIREMENTS MANAGEMENT PLAN
• REQUIREMENTS ATTRIBUTES
• VISION
• SUPPLEMENTARY SPECIFICATION
• REVIEW RECORD

Refine the System Definition
Detail a Use Case
Develop Supplementary Specifications
Detail the Software Requirements

Potential Work Products
• USE CASE
• REQUIREMENTS ATTRIBUTES
• SUPPLEMENTARY SPECIFICATION
• REVIEW RECORD

ANALYSIS & DESIGN

Conceive New Project
Identify and Assess Risks
Develop Business Case
Initiate Project
Project Approval Review

Potential Work Products
• RISK LIST
• BUSINESS CASE
• SOFTWARE DEVELOPMENT PLAN
• REVIEW RECORD

Evaluate Project Scope and Risk
Identify and Assess Risks
Develop Business Case

Potential Work Products
• RISK LIST
• BUSINESS CASE

Plan the Project
Develop Measurement Plan
Develop Risk Management Plan
Develop Product Acceptance Plan
Develop Problem Resolution Plan
Develop Quality Assurance Plan
Define Project Organization and Staffing
Define Monitor and Control Processes
Plan Phases and Iterations
Compile Software Development Plan
Project Planning Review

Potential Work Products
• MEASUREMENT PLAN
• RISK MANAGEMENT PLAN
• PRODUCT ACCEPTANCE PLAN
• PROBLEM RESOLUTION PLAN
• QUALITY ASSURANCE PLAN
• SOFTWARE DEVELOPMENT PLAN
• REVIEW RECORD

Manage Iteration
Acquire Staff
Initiate Iteration
Iteration Evaluation Criteria Review
Identify and Assess Risks
Assess Iteration
Iteration Acceptance Review

Potential Work Products
• SOFTWARE DEVELOPMENT PLAN
• WORK ORDER
• RISK LIST
• ISSUES LIST
• STATUS ASSESSMENT
• REVIEW RECORD

Reevaluate Project Scope and Risk
Identify and Assess Risks
Develop Business Case

Potential Work Products
• RISK LIST
• BUSINESS CASE

Plan for Next Iteration
Develop Iteration Plan
Develop Business Case
Iteration Plan Review

Potential Work Products
• ITERATION PLAN
• BUSINESS CASE
• REVIEW RECORD

Close Out Project
Prepare for Project Close-Out
Project Acceptance Review

Potential Work Products
• ISSUES LIST
• SOFTWARE DEVELOPMENT PLAN
• STATUS ASSESSMENT
• REVIEW RECORD

Close Out Project
Prepare for Project Close-Out
Project Acceptance Review

Potential Work Products
• ISSUES LIST
• SOFTWARE DEVELOPMENT PLAN
• STATUS ASSESSMENT
• REVIEW RECORD

Perform Architectural Synthesis
Define a System Context
Architectural Analysis
Construct Architectural Proof-of-Concept
Assess Viability of Architectural Proof-of-Concept

Potential Work Products
• ANALYSIS MODEL
• OPERATION
• USE CASE MODEL
• DESIGN MODEL
• DEPLOYMENT MODEL
• SOFTWARE ARCHITECTURE DOCUMENT
• ARCHITECTURAL PROOF-OF-CONCEPT
• REVIEW RECORD
• REFERENCE ARCHITECTURE

Refine the Architecture
Identify Design Mechanisms
Identify Design Elements
Operation Analysis
Incorporate Existing Design Elements
Structure the Implementation Model
Describe the Run-time Architecture
Describe Distribution
Review the Architecture

Potential Work Products
• SOFTWARE ARCHITECTURE DOCUMENT
• DESIGN MODEL
• SERVICE MODEL
• IMPLEMENTATION MODEL
• DEPLOYMENT MODEL
• ANALYSIS MODEL
• OPERATION
• OPERATION REALIZATION
• USE CASE MODEL
• REVIEW RECORD

Define a Candidate Architecture
Define a System Context
Architectural Analysis
Use-Case Analysis
Operation Analysis
Identify Security Patterns

Potential Work Products
• ANALYSIS MODEL
• OPERATION
• USE CASE MODEL
• DESIGN MODEL
• DEPLOYMENT MODEL
• SOFTWARE ARCHITECTURE DOCUMENT
• USE CASE REALIZATION
• OPERATION REALIZATION

Analyze Behavior
Identify Design Elements
Use-Case Analysis
Operation Analysis
Design the User Interface
Prototype the User Interface
Review the Design

Potential Work Products
• DESIGN MODEL
• SERVICE MODEL
• USE CASE REALIZATION
• ANALYSIS MODEL
• OPERATION
• OPERATION REALIZATION
• NAVIGATION MAP
• USER INTERFACE PROTOTYPE
• REVIEW RECORD

Design the Database
Class Design
Specify Data Migration
Database Design
Review the Design

Potential Work Products
• DESIGN MODEL
• DATA MIGRATION SPECIFICATION
• DATA MODEL
• REVIEW RECORD

Service Specification
Perform Service Specification
Perform Subsystem Analysis
Perform Component Specification

Potential Work Products
• SERVICE MODEL
• GOAL-SERVICE MODEL
• DESIGN MODEL
• SOFTWARE ARCHITECTURE DOCUMENT
• SERVICE COMPONENT

Design Components
Use-Case Design
Subsystem Design
Operation Design
Class Design
Define Testability Elements

Potential Work Products
• DESIGN MODEL
• TEST INTERFACE SPECIFICATION
• DEPLOYMENT MODEL
• TESTABILITY CLASS
• DESIGN CLASS
• DESIGN PACKAGE
• TEST DESIGN
• TEST AUTOMATION ARCHITECTURE

ENVIRONMENT

Prepare Environment for Project
Tailor the Process for the Project
Develop Development Case
Prepare Templates for the Project
Prepare Guidelines for the Project
Select and Acquire Tools

Potential Work Products
• DEVELOPMENT CASE
• DEVELOPMENT CASE
• PROJECT-SPECIFIC TEMPLATES
• PROJECT-SPECIFIC GUIDELINES
• TOOLS

Prepare Environment for an Iteration
Develop Development Case
Prepare Guidelines for the Project
Develop Manual Styleguide
Prepare Templates for the Project

Potential Work Products
• DEVELOPMENT CASE
• DEVELOPMENT CASE
• PROJECT-SPECIFIC TEMPLATES
• PROJECT-SPECIFIC GUIDELINES
• TOOLS

Support Environment for an Iteration
Support Development

Potential Work Products
• DEVELOPMENT INFRASTRUCTURE

IMPLEMENTATION

Structure the Implementation Model
Structure the Implementation Model
Potential Work Products
• IMPLEMENTATION MODEL
• SOFTWARE ARCHITECTURE DOCUMENT

Plan the Integration
Plan System Integration
Potential Work Products
• INTEGRATION BUILD PLAN

Service Realization
Realize Decisions
Potential Work Products
• DESIGN MODEL
• SERVICE COMPONENT
• ARCHITECTURAL PROOF-OF-CONCEPT
• REVIEW RECORD
• REFERENCE ARCHITECTURE

Implement Components
Plan Subsystem Integration
Implement Design Elements
Analyze Runtime Behavior
Implement Testability Elements
Implement Developer Test
Execute Developer Tests
Review Code

Potential Work Products
• INTEGRATION BUILD PLAN
• IMPLEMENTATION ELEMENT
• IMPLEMENTATION SUBSYSTEM
• TEST RESULTS
• TESTABILITY ELEMENT
• TEST STUB
• DEVELOPER TEST
• TEST LOG
• REVIEW RECORD

Integrate Each Subsystem
Implement Developer Test
Execute Developer Test
Integrate Subsystem
Potential Work Products
• DEVELOPER TEST
• TEST LOG
• IMPLEMENTATION SUBSYSTEM

Integrate the System
Integrate System
Potential Work Products
• BUILD

TEST

Define Evaluation Mission
Identify Test Motivators
Agree on the Mission
Identify Targets of Test
Define Assessment and Traceability Needs
Identify Test Ideas
Define Test Approach

Potential Work Products
• TEST PLAN
• TEST STRATEGY
• TEST IDEAS LIST
• TEST ENVIRONMENT CONFIGURATION

Test and Evaluate
Define Test Details
Implement Test Suite
Execute Test Suite
Analyze Test Failure
Structure the Test Implementation
Identify Test Ideas
Determine Test Results

Potential Work Products
• TEST CASE
• TEST DATA
• TEST SCRIPT
• WORKLOAD ANALYSIS MODEL
• TEST SUITE
• TEST EVALUATION SUMMARY
• CHANGE REQUEST

Verify Test Approach
Define Test Environment Configurations
Identify Testability Mechanisms
Define Testability Elements
Define Test Details
Implement Test
Implement Test Suite
Obtain Testability Commitment

Potential Work Products
• TEST ENVIRONMENT CONFIGURATION
• TEST AUTOMATION ARCHITECTURE
• TEST INTERFACE SPECIFICATION
• TEST DESIGN
• TEST CASE
• TEST DATA
• TEST SCRIPT
• WORKLOAD ANALYSIS MODEL
• TEST SUITE

Validate Build Stability
Define Test Details
Implement Test
Execute Test Suite
Analyze Test Failure
Determine Test Results
Assess and Advocate Quality

Potential Work Products
• TEST CASE
• TEST DATA
• TEST SCRIPT
• WORKLOAD ANALYSIS MODEL

Achieve Acceptable Mission
Assess and Improve Test Effort
Assess and Advocate Quality
Determine Test Results

Potential Work Products
• TEST EVALUATION SUMMARY
• TEST PLAN
• TEST RESULTS

Improve Test Assets
Prepare Guidelines for the Project
Define Test Approach
Define Testability Elements
Structure the Test Implementation
Identify Test Ideas
Define Test Details
Define Assessment and Traceability Needs
Implement Test
Implement Test Suite

Potential Work Products
• PROJECT-SPECIFIC GUIDELINES
• TEST STRATEGY
• TEST PLAN
• TEST DESIGN
• TEST AUTOMATION ARCHITECTURE
• TEST INTERFACE SPECIFICATION
• TEST SUITE
• TEST SCRIPT
• TEST IDEAS LIST
• TEST CASE
• TEST DATA
• WORKLOAD ANALYSIS MODEL

CONFIGURATION & CHANGE MANAGEMENT

Manage Change Requests
Submit Change Request
Update Change Request
Perform Configuration Audit
Confirm Duplicate or Reject CR
Schedule and Assign Work
Verify Changes in Build

Potential Work Products
• CHANGE REQUEST
• SOFTWARE DEVELOPMENT PLAN
• ITERATION PLAN
• WORK ORDER
• TEST RESULTS

Monitor & Report Configuration Status
Report on Configuration Status
Perform Configuration Audit

Potential Work Products
• PROJECT MEASUREMENTS
• CONFIGURATION AUDIT FINDINGS

Change & Deliver Configuration Items
Create Development Workspace
Make Changes
Deliver Changes
Update Workspace
Create Baseline

Potential Work Products
• PROJECT REPOSITORY
• WORKSPACE

Plan Project Configuration & Change Control
Establish Configuration Management (CM) Policies
Write Configuration Management (CM) Plan
Establish Change Control Process

Potential Work Products
• CONFIGURATION MANAGEMENT PLAN

Create Project Configuration Management (CM) Environments
Set Up Configuration Management (CM) Environment
Create Integration Workspaces

Potential Work Products
• PROJECT REPOSITORY
• WORKSPACE

Manage Baselines & Releases
Create Deployment Unit
Create Baselines
Promote Baselines

Potential Work Products
• DEPLOYMENT UNIT
• PROJECT REPOSITORY
• WORKSPACE

Change and Deliver Configuration Items
Monitor and Report Configuration Status
Manage Baselines and Releases

DEPLOYMENT

Plan Deployment
Develop Deployment Plan
Define Bill of Materials

Potential Work Products
• DEPLOYMENT PLAN
• BILL OF MATERIALS

Beta Test Product
Manage Beta Test

Potential Work Products
• CHANGE REQUEST

Manage Acceptance Test for Custom Install
Manage Acceptance Test
Support Development
Execute Test Suite
Determine Test Results

Potential Work Products
• CHANGE REQUEST
• TEST ENVIRONMENT CONFIGURATION
• DEVELOPMENT INFRASTRUCTURE
• TEST LOG
• TEST RESULTS
• TEST EVALUATION SUMMARY

Develop Supporting Material
Develop Training Material
Develop Support Material
Create Product Artwork
Develop Installation Work Products

Potential Work Products
• TRAINING MATERIAL
• USER SUPPORT MATERIAL
• CREATE PRODUCT ARTWORK
• INSTALLATION ARTIFACTS

Manage Acceptance Test
Manage Acceptance Test
Support Development
Execute Test Suite
Determine Test Results

Potential Work Products
• CHANGE REQUEST
• TEST ENVIRONMENT CONFIGURATION
• DEVELOPMENT INFRASTRUCTURE
• TEST LOG
• TEST RESULTS
• TEST EVALUATION SUMMARY

Package Product
Verify Manufactured Product
Release to Manufacturing

Potential Work Products
• PRODUCT

Provide Access to Download Site
Provide Access to Download Site

Potential Work Products
• DEPLOYMENT UNIT

Produce Deployment Unit
Write Release Notes
Create Deployment Unit

Potential Work Products
• RELEASE NOTES
• DEPLOYMENT UNIT

