

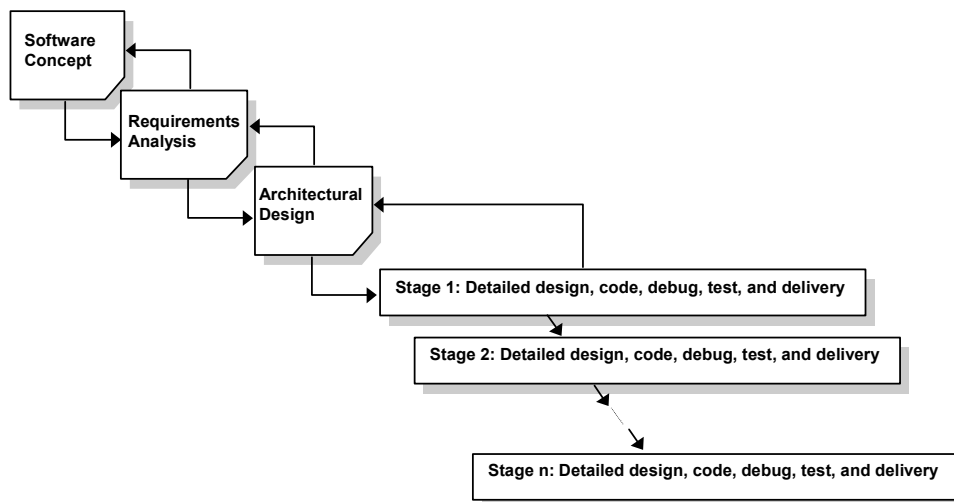
## SOFTWARE PROJECT SURVIVAL GUIDE

### Overview

CxOne is a lightweight, adaptable, flexible process infrastructure that can be used on a variety of projects. This CxOne process flow discusses how to use CxOne resources to run a project as described in Steve McConnell’s *Software Project Survival Guide* (SPSG).

### Background

The SPSG project is run using a staged delivery lifecycle in which the software progresses through the waterfall model steps of defining the software concept, analyzing requirements, and creating an architectural design. It then proceeds to do detailed design, coding, debugging, and testing within each stage, creating a releasable product at the end of each stage.



**Figure 1: Staged Delivery Lifecycle**

### How to Use

CxOne checklists, templates, and guides may be used to implement the project process outlined in Software Project Survival Guide. This document contains a mapping of the relevant CxOne documents to SPSG on the basis of:

- Each chapter in SPSG
- Each topic discussed in SPSG
- The sequence of activities on project

## Materials by Chapter

CxOne materials are mapped to Software Project Survival Guide on a chapter by chapter basis.

Chapter	Chapter Name	CxOne Resources
6	Hitting a Moving Target	Software Configuration Management Process Standard Change Control Plan Template and Checklist
7	Preliminary Planning	Software Project Plan Guide, Template, and Checklist Top 10 Risk List Pattern Quality Plan Template and Checklist Estimation Checklist
8	Requirements Development	Requirements Standard Software Requirements Specification Template and Checklist Business, Functional, and Non-Functional Requirements Checklists Requirements Modeling Checklists Windows User Interface Checklist
9	Quality Assurance	Quality Plan Template and Checklist Test Plan Template and Checklist Review Standards, Templates, and Checklists Software Problem Report and Change Request Checklists
10	Architecture	Software Design Specification Guide, Template, and Checklist
11	Final Preparations	Estimation Checklist
12	Beginning of Stage Planning	Software Project Plan Guide, Template, and Checklist Top 10 Risk List Pattern Quality Plan Template and Checklist Estimation Checklist
13	Detailed Design	Design Templates and Checklists
14	Construction	Construction Standard, Templates, and Checklists
15	System Testing	Test Case Specification Template and Checklist Test Summary Report Template and Checklist Software Problem Report and Change Request Checklists
16	Software Release	Release Sign-Off Template Release Checklist
17	End of Stage Wrap-Up	Software Project Log Template and Checklist
18	Project History	Software Project History Template and Checklist

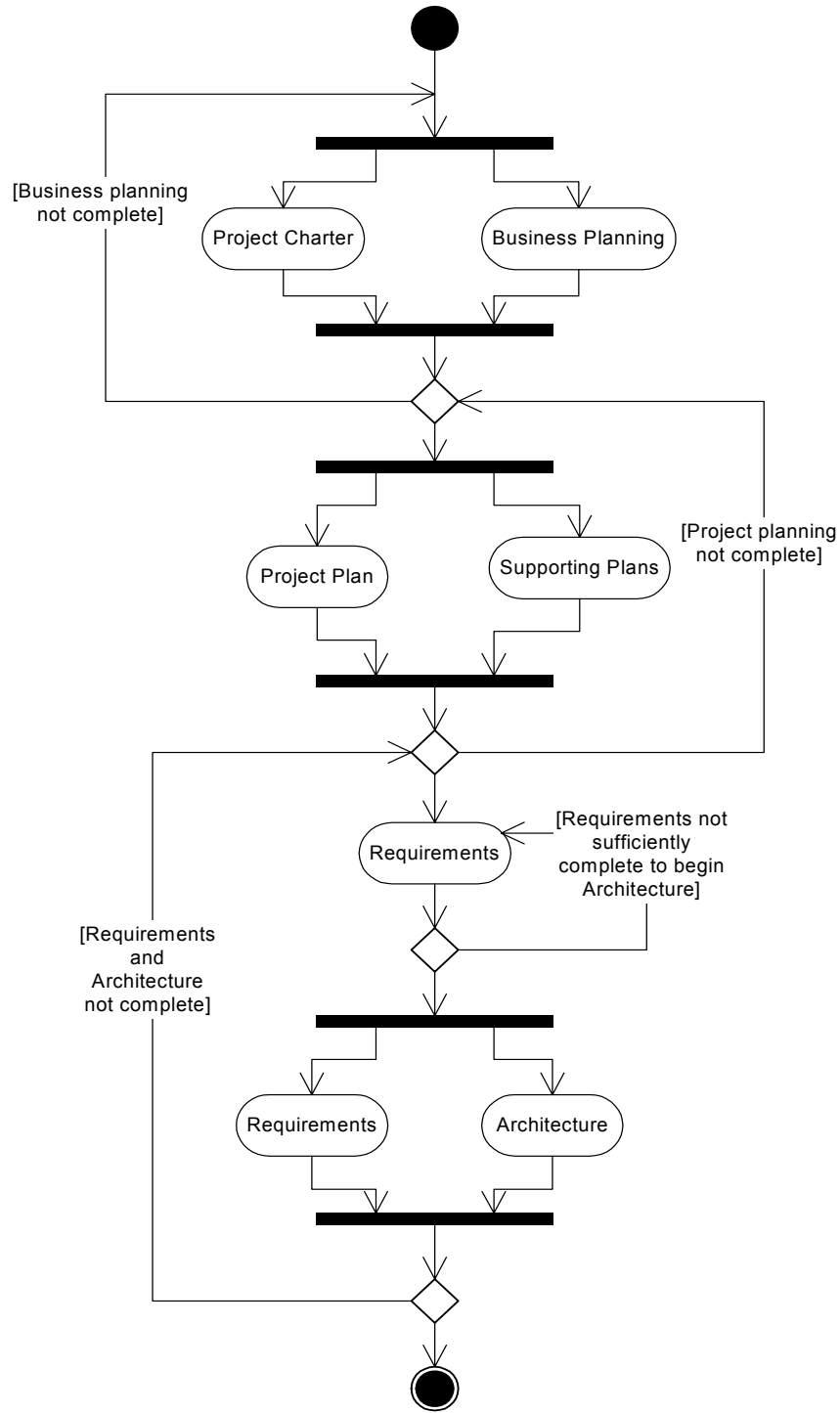
## Materials by Topic

CxOne materials are mapped to Software Project Survival Guide on a topical basis.

Topic	CxOne Resources
Project Planning	Project Charter Guide, Template, and Checklist Software Project Plan Guide, Template, and Checklist Top 10 Risk List Pattern Estimation Checklist
Configuration Management/Change Control	Software Configuration Management Process Standard Change Control Plan Template and Checklist Software Problem Report and Change Request Checklists
Requirements Development	Requirements Standard Software Requirements Specification Template and Checklist Business, Functional, and Non-Functional Requirements Checklists Requirements Modeling Checklists Windows User Interface Checklist
Quality Assurance	Quality Plan Template and Checklist Test Plan Template and Checklist Review Standards, Templates, and Checklists
Architecture	Software Design Specification Guide, Template, and Checklist
Detailed Design	Design Templates and Checklists
System Testing	Test Case Specification Template and Checklist Test Summary Report Template and Checklist Software Problem Report and Change Request Checklists
Software Release	Release Sign-Off Template Release Checklist
Process Improvement	Software Project Log Template and Checklist Software Project History Template and Checklist

## Materials by Software Project Survival Guide Workflow

Figure 2 and Figure 3 outline the workflow for the initial planning and stages on a software project as run using the Software Project Survival Guide. CxOne materials are then mapped to each workflow.



## Figure 2: Initial Planning Workflow

The following CxOne materials support the initial planning phase.

### Business Planning

- Project Charter Guide, Template, and Checklist

### Project Planning

- Software Project Plan Guide, Template, and Checklist
- Top 10 Risk List Pattern
- Estimation Checklist
- Software Configuration Management Process Standard
- Change Control Plan Template and Checklist
- Software Problem Report and Change Request Checklists

### Requirements

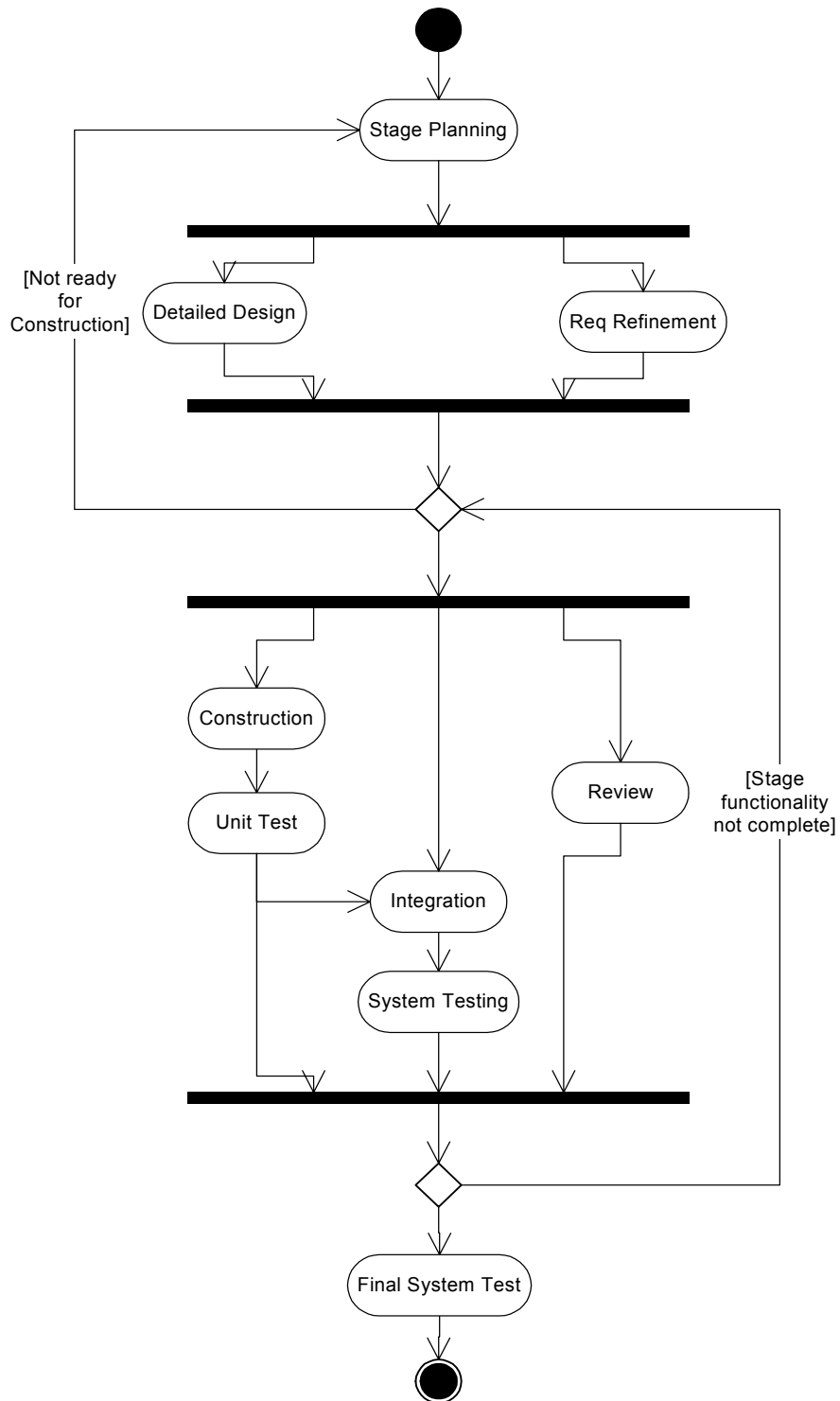
- Requirements Standard
- Software Requirements Specification Template and Checklist
- Business, Functional, and Non-Functional Requirements Checklists
- Requirements Modeling Checklists

### Design

- Software Design Specification Guide, Template, and Checklist

### Quality Assurance

- Quality Plan Template and Checklist
- Test Plan Template and Checklist
- Review Standards, Templates, and Checklists



**Figure 3: Stage Workflow**

The following CxOne materials support each stage.

### **Design**

- Design Templates and Checklists

### **Construction**

- Construction Templates and Checklists

### **Testing**

- Test Case Specification Template and Checklist
- Test Summary Report Template and Checklist
- Software Problem Report and Change Request Checklists

### **Software Release**

- Release Sign-Off Template
- Release Checklist

### **Process Improvement**

- Software Project Log Template and Checklist
- Software Project History Template and Checklist