**Software Development**

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# 1 Overview

{概述}

***【描述本文档的目的】***

(参考示例：This document is a summary of software life cycle development plan，Including a summary of configuration management and maintenance plans.)

# 2 Software development life cycle

{生命周期中各阶段的描述}

***【1) 描述软件开发生命周期包括几个阶段***

***2) 描述每个阶段的主要工作描述以及获取的结果】***

（参考示例：

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity** | **Task** | **Life Cycle Stage** | **Deliverables** |
| Development | Determine the goals and feasibility of software development | YYYY.MM.DD~YYYY.MM.DD | Project Development Plan |
| Requirement | Determine the requirements of the software system's functions, performance, data, and interfaces | YYYY.MM.DD~YYYY.MM.DD | SRS |
| Design | The design is divided into outline design and detailed design.  The outline design is the structure of the design software.  The detailed design is a detailed description of the functions completed by each module. | YYYY.MM.DD~YYYY.MM.DD | Design specification, database design specification, interface design, detailed design specification, etc. |
| Coding | Transform the control structure of the module into program code | YYYY.MM.DD~YYYY.MM.DD | User manual, review report |
| Unit test | Unit Test Plan, Unit Test Report | YYYY.MM.DD~YYYY.MM.DD | Test plan, test report |
| Integration Testing | Integrated test plan, integrated test report | YYYY.MM.DD~YYYY.MM.DD | Test plan, test report |
| System test | System Test Plan, System Test Report | YYYY.MM.DD~YYYY.MM.DD | Test plan, test report |
| Issue | Complete software development and install the developed software system on the client's server | YYYY.MM.DD~YYYY.MM.DD | Development summary report, user manual, application software list, source code list, |
| Maintain | Provide customers with training, troubleshooting, and required software upgrades. | YYYY.MM.DD~YYYY.MM.DD | Maintenance documentation |

# 3 Software configuration management

# {软件配置管理}

**3.1 The items of Configuration management**

{配置管理项 }

***【描述配置管理中的配置项有哪些？】***

**3.2 Tools of configuration management plan**

{描述配置管理计划的工具 }

（参考示例，例如SVN configuration base, Bugzilla configuration base, VSS configuration base等。）

**3.3 Diagram of configuration management plan**

{建议用图示的方式描述配置管理计划的流程。}

**3.4 Requirement of configuration management plan**

{描述配置管理计划的需求}

# 4 Software configuration maintenance plan

**4.1 The items of Configuration maintenance**

{列举软件配置维护需要对哪些故障或活动进行维护，例如客户端失效维护、bug维护、市场需求处理维护等等}

**4.2 Tools of Configuration maintenance**

{描述软件配置维护采用的工具}

(参考示例，例如VSS configuration base ，Bugzilla configuration base）

## 4.3 Process and Requirements

{过程和要求}

***[描述软件配置维护分哪几个过程，各个过程都有什么要求？]***

(参考示例:

|  |  |  |
| --- | --- | --- |
| **SN** | **Process** | **Requirement** |
| 1 | Failure and requirement feedback | Customer Service Department confirms the type of failure/error and the original cause |
| 2 | Evaluation analysis | 1)Assessment of the failure, type of requirement, method of confirming the change, and time of the change  2)Risk analysis, whether the change will bring new risks or not  3)Entering a new phase after evaluation and approval by the risk analysis team |
| 3 | Software modify | Modify and optimize software based on requirements and failure points |
| 4 | Test validation | 1)Test if there are new bugs  2)If the test does not pass, return to the second process above to re-evaluate the analysis  3)After the test is completed, the project manager and R&D director confirm the release of the ECR. |
| 5 | Engineering change | Issue engineering change notices and conduct test products based on ECR requirements |
| 6 | Software release | Confirm the updated software version and archive management through the software configuration management plan |
| 7 | Ending | Complete maintenance plan |