**SOFTWARE SYSTEMS IMPLEMENTATION PLAN TEMPLATE**

SYSTEMS IMPLEMENTATION PLAN

|  |  |  |  |
| --- | --- | --- | --- |
| **PROJECT TITLE** |  | | |
|  | | | |
| **PROJECT MANAGER** | | **PROJECT SPONSOR** | **DATE INITIATED** |
|  | |  |  |

|  |  |
| --- | --- |
| PLANS | WHERE TO FIND |
| Implementation Strategy | [This Document](#_Implementation_Strategy) |
| Testing Strategy | [This Document](#_Testing_Strategy) |
| Knowledge Transfer and Training Plan | [This Document](#_Knowledge_Transfer_and) |
| Operational Impact Specification | [This Document](#_Operational_Impact_Specification) |

**Help Using This Template** Delete this box after reading.

The systems implementation plan is the hub for all planning activities associated with developing and implementing an information system. The plans included in this template should be removed, updated, or extracted to suit project needs. Projects that require custom software development will need far more planning around design, construction, and testing. This page should provide hyperlinks to all plans, whether in this document or elsewhere.

# IMPLEMENTATION STRATEGY

**COMPONENTS TO BE IMPLEMENTED**

|  |  |  |
| --- | --- | --- |
| COMPONENT NAME | DESCRIPTION OF FUNCTION | SOURCE |
| <Application> | <A brief description of what the component does> | <Developed in-house, custom developed by a contractor, off the shelf, etc.> |
| <Module> |  |  |
| <Database> |  |  |

**DEVELOPMENT APPROACH**

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| --- |
| <This section briefly describes the development model that will be used, for example, Waterfall, iterative, evolutionary, prototyping, Agile, etc.> |

**INTEGRATION APPROACH**

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| <This section identifies dependencies and the sequences in which components will be integrated and tested. A diagram could be substituted or added to show connection points to other systems.> |

**IMPLEMENTATION STRATEGY**

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| <The implementation strategy should cover the following topics:   * Implementation environment and facilities * Methods and tools * Deliverables for the user community, including training * Identification of deployment sites> |

**CONVERSION STRATEGY**

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| <The conversion strategy should describe how legacy data is being handled. It describes the overall approach and covers the tools, techniques, sources of data, challenges, etc.> |

**DEPLOYMENT STRATEGY**

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| --- |
| <This section presents the overall deployment strategy by addressing the elements needed to deliver the system to identified sites. It covers activities, tools, locations, people, etc.> |

**Help Using This Template** *Delete this box after reading.*

The implementation strategy is a high-level plan of how the system will be implemented. First, the system is broken down into components that are described, and then aspects of implementation are described. Add or remove sections to suit your particular needs. Identifying your approach early on can be useful for planning costs, scope, and time.

# TESTING STRATEGY

**DEPLOYMENT ENVIRONMENTS**

|  |  |  |
| --- | --- | --- |
| NAME | TECHNICAL DESCRIPTION | USAGE DESCRIPTION |
| Development | <Hardware, software, CPUs, etc.> | <Purpose, frequency of updates, stability, etc.> |
| Functional Testing |  |  |
| User Acceptance Testing |  |  |
| Production |  |  |
| <Other Environments> |  |  |

**ENVIRONMENT CONTROL APPROACH**

|  |
| --- |
| <This section describes how the various environments will be updated and used. It covers deployment tools, schedules, etc.> |

**PLANNED TESTING ACTIVITIES**

|  |  |  |
| --- | --- | --- |
| TYPE OF TEST | DESCRIPTION | FREQUENCY |
| Unit Testing | <Describe method, tools, people involved, effort, etc.> | <Every x days, before major releases, etc.> |
| Integration Testing |  |  |
| Load Testing |  |  |
| User Acceptance Testing |  |  |
| <Other Tests> |  |  |

**DEFECT TRACKING AND RESOLUTION APPROACH**

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| <This section describes how defects arising from testing will be tracked and resolved. This should coordinate with the overall quality management plan in the project management plan.> |

**Help Using This Template** *Delete this box after reading.*

The testing strategy defines, at a high level, how testing will occur. Testing generally involves periodic deployment to various environments and the involvement of various testing groups. Testing should cover a broad range of areas, such as functional testing, load testing, performance testing, user acceptance testing, integration tests, unit tests, etc. Planning how the system will be tested and what hardware/software will be required helps you plan costs, assign roles, and coordinate with the TSC.

Lastly, the approach to defect-tracking and resolution should be described, including any tools and processes to be used.

# KNOWLEDGE TRANSFER AND TRAINING PLAN

**KNOWLEDGE REQUIREMENTS**

|  |  |  |
| --- | --- | --- |
| KNOWLDEGE AREA | KNOWLEDGE GROUP | REQUIRED OPERATIONAL GROUPS |
| <Technical Knowledge> | <Who on the implementation team knows about this area?> | <Who on the operational team needs to know this area?> |
| <System Knowledge> |  |  |
| <Application Knowledge> |  |  |
| <Other Areas> |  |  |

**KNOWLEDGE TRANSFER PLAN**

|  |  |  |  |
| --- | --- | --- | --- |
| TRANSFER ACTIVITIY | AUDIENCE | PERSON RESPONSIBLE | TIMEFRAME |
| <Produce Operations Manual> | <Who on the operational team is this activity intended for?> | <Who on the implementation team is responsible for this activity?> | <Dates, times, frequency, etc.> |
| <Conduct Workshop> |  |  |  |
|  |  |  |  |

**TRAINING REQUIREMENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| USER GROUP | TRAINING NEEDS | SIZE OF GROUP | LOCATION OF GROUP |
| <Admins> | <Roles, modules, functions> | <# people> | <HQ, communities> |
| <Users> |  |  |  |
| <Other Groups> |  |  |  |

**TRAINING PLAN**

|  |  |  |  |
| --- | --- | --- | --- |
| TRAINING ACTIVITY | AUDIENCE | TRAINING TEAM | TIMEFRAME |
| <Production Guide> | <Who is this activity intended for?> | <Who is involved in delivering this training?> | <Dates, times, frequency, etc.> |
| <Workshop> |  |  |  |
|  |  |  |  |

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The knowledge transfer and training plan describe the activities that will be undertaken in the critical areas of knowledge transfer (operational team) and training (end users). Planning these activities early on is helpful in cost estimation, resource allocation, scheduling, etc. This plan can be used as the basis of developing a full training schedule later on. It can also help you coordinate the transition of operations to the operational team and the TSC.

# OPERATIONAL IMPACT SPECIFICATION

**OPERATIONAL PROFILE**

|  |  |
| --- | --- |
| Operating Hours | <7 days - 24 hours per day, 6 days - 22 hours per day> |
| Expected Availability | <high availability: 99.5%> |
| Expected Reliability | <fault tolerance: 99.9%> |
| Peak Busy Hours | <09:30 - 10:30 hours, 13:00 - 14:00 hours> |
| Maximum Tolerable Outage | <For example, how long can the system be offline? 2 hours, 24 hours, 48 hours> |
| Backup Window | <daily between 23:00 - 24:00 hours, weekend availability> |
| Backup Requirements | < full backup once a week, off-site requirement> |
| <Other Specifications> |  |

**GROWTH ESTIMATES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
| # of Workstations |  |  |  |  |  |
| # of Application Servers |  |  |  |  |  |
| # of Database Servers |  |  |  |  |  |
| # of Other Servers |  |  |  |  |  |
| # of Virtual Cores |  |  |  |  |  |
| Storage Requirements (GB) |  |  |  |  |  |
| <Other Estimates> |  |  |  |  |  |

**INTEGRATION POINTS**

|  |  |  |
| --- | --- | --- |
| SYSTEM TO BE INTEGRATED | APPROACH | FREQUENCY |
| **<Financial System>** | <Technique, tool, etc.> | <Real-time, daily, weekly> |
| **<Other Systems>** |  |  |

**Help Using This Template** Delete this box after reading.

The operational impact specification is a planning tool used to estimate the impact of the system in the environment where it is being implemented. Add or remove specifications to suit the system being implemented.

This plan can be used as the basis of planning costs, hardware requirements, service-level agreements, disaster recovery planning, and many other areas. Ideally, this should be filled out in consultation with the TSC via your business relationship manager (BRM).

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