WORK BREAKDOWN SCHEDULE

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|  | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| 1 | Project Initiation |  |  |  |
| 1.1 |  | Project evaluation |  |  |
| 1.1.1 |  |  | Current system concepts and understanding |  |
| 1.1.2 |  |  | project feasibility study |  |
| 1.1.3 |  |  | Project recommendations |  |
| 1.2 |  | Project charter preparation |  |  |
| 1.2.1 |  |  | define scope, time, cost |  |
| 1.2.2 |  |  | identify summary milestones |  |
| 1.2.3 |  |  | Assign high level roles |  |
| 1.2.4 |  |  | prepare high level budget |  |
| 1.2.5 |  |  | Identify high level control strategies |  |
| 1.2.6 |  |  | define project manager authority level |  |
| 1.2.7 |  |  | Gain approval for project charter |  |
| 1.3 |  | Preliminary project scope |  |  |
| 1.3.1 |  |  | Define preliminary scope statement |  |
| 1.3.2 |  |  | Gain approval for preliminary scope |  |
| 1.4 |  | Detailed Requirement Gathering |  |  |
| 1.4.1 |  |  | Requirement gathering interviews with users |  |
| 1.4.2 |  |  | Consolidated requirement document |  |
| 1.4.3 |  |  | approval of requirements |  |
| 2 | Project Planning |  |  |  |
| 2.1 |  | project kick off meeting |  |  |
| 2.2 |  | Prepare project plan |  |  |
| 2.2.1 |  |  | Define work breakdown structure |  |
| 2.2.2 |  |  | Estimate and prepare project schedule |  |
| 2.2.3 |  |  | Prepare project budget |  |
| 2.2.4 |  |  | Develop resource allocation plan |  |
| 2.3 |  | High level design |  |  |
| 2.3.1 |  |  | Prepare high level design of web portal |  |
| 2.3.2 |  |  | Develop high level design of New EDI mappings |  |
| 2.3.3 |  |  | High level design of compliance link test application |  |
| 2.3.4 |  |  | High level architecture of integration of ERP and warehouse systems |  |
| 2.4 |  | Quality management plan |  |  |
| 2.4.1 |  |  | Define quality standards for project |  |
| 2.4.2 |  |  | Quality metrics |  |
| 2.4.3 |  |  | Quality checklist |  |
| 2.4.4 |  |  | Gain approval for quality management plan |  |
| 2.5 |  | Risk planning |  |  |
| 2.5.1 |  |  | Prepare risk register |  |
| 2.5.2 |  |  | Risk priority list |  |
| 2.5.3 |  |  | Risk control procedures |  |
| 2.6 |  | Develop communication plan |  |  |
| 2.7 |  | Finalize project plan and gain approvals |  |  |
| 3 | Project execution |  |  |  |
| 3.1 |  | Detailed design |  |  |
| 3.1.1 |  |  | Detailed design of web portal |  |
| 3.1.2 |  |  | Low level design of New EDI mappings |  |
| 3.1.3 |  |  | Low level design of compliance link test application |  |
| 3.1.4 |  |  | Low level architecture of integration of ERP and warehouse systems |  |
| 3.2 |  | Hardware and software procurement |  |  |
| 3.2.1 |  |  | Hardware installation |  |
| 3.2.2 |  |  | software installation |  |
| 3.2.3 |  |  | Prepare development environment |  |
| 3.3 |  | Implementation |  |  |
| 3.3.1 |  |  | Develop supplier web portal |  |
| 3.3.1.1 |  |  |  | Develop screens for supplier login |
| 3.3.1.2 |  |  |  | Create incoming shipment tracking functionality |
| 3.3.1.3 |  |  |  | Create outgoing shipment tracking functionality |
| 3.3.2 |  |  | Develop new EDI mappings |  |
| 3.3.2.1 |  |  |  | Tracking numbers |
| 3.3.2.2 |  |  |  | Pallet ID’s |
| 3.3.2.3 |  |  |  | Estimated ship dates |
| 3.3.2.4 |  |  |  | PO text to suppliers |
| 3.3.2.5 |  |  |  | Lot (batch) numbers |
| 3.3.2.6 |  |  |  | Expiration dates |
| 3.3.3 |  |  | Develop of a compliance link application for testing supplier maps. |  |
| 3.3.4 |  |  | Directing feed into ERP and Warehousing systems |  |
| 3.3.4.1 |  |  |  | Map ERP output data to data warehouse tables |
| 3.3.4.2 |  |  |  | integrate ERP system with warehouse |
| 3.3.5 |  |  | Develop a non-conforming queue for order processing |  |
| 3.3.6 |  |  | Enhancement of receiving process |  |
| 3.3.7 |  |  | Enhancement of put away process |  |
| 3.4 |  | Change control |  |  |
| 3.4.1 |  |  | Evaluate the impact of change |  |
| 3.4.2 |  |  | Identify various options for change |  |
| 3.4.3 |  |  | Gain approval for change request |  |
| 3.4.4 |  |  | implement change |  |
| 3.4.5 |  |  | Adjust and communicate project plan, documents, and baseline |  |
| 3.5 |  | Testing |  |  |
| 3.5.1 |  |  | Unit testing |  |
| 3.5.1.1 |  |  |  | Test supplier web portal |
| 3.5.1.2 |  |  |  | Test EDI mapping enhancements |
| 3.5.1.3 |  |  |  | Test compliance link application for testing supplier maps |
| 3.5.1.4 |  |  |  | Test warehouse is getting feed from ERP system |
| 3.5.1.5 |  |  |  | Test non-conforming queue |
| 3.5.1.6 |  |  |  | Test receiving and put away process |
| 3.5.1.7 |  |  |  | defect resolution and retesting |
| 3.5.1.8 |  |  |  | sign off for testing |
| 3.5.2 |  |  | Integration testing |  |
| 3.5.2.1 |  |  |  | integrated components testing for each module |
| 3.5.2.2 |  |  |  | integrated modules testing |
| 3.5.3 |  |  | System testing |  |
| 3.5.3.1 |  |  |  | Test whole system for all the requirements |
| 3.5.3.2 |  |  |  | Functional testing |
| 3.5.3.3 |  |  |  | Stress testing |
| 3.5.4 |  |  | User acceptance testing |  |
| 3.5.4.1 |  |  |  | Defect resolution |
| 3.5.4.2 |  |  |  | Retesting in UAT environment |
| 3.5.5 |  |  | Sign off for all the complete testing |  |
| 4 | Deployment |  |  |  |
| 4.1 |  | Deployment preparation |  |  |
| 4.1.1 |  |  | Create documents for migration plan |  |
| 4.1.2 |  |  | steps to follow for deployment |  |
| 4.1.3 |  |  | checklist |  |
| 4.1.4 |  |  | code freeze |  |
| 4.1.5 |  |  | code check-in |  |
| 4.2 |  | Deployment to production |  |  |
| 4.2.1 |  |  | deploy code to production |  |
| 4.2.2 |  |  | validate and verify the changes |  |
| 4.2.3 |  |  | test system in production environment |  |
| 4.2.4 |  |  | Announce availability of new system |  |
| 5 | Project closure |  |  |  |
| 5.1 |  | Administrative closure processes |  |  |
| 5.2 |  | Organizational procedures for asset updates |  |  |
| 5.3 |  | Final services and results documentation |  |  |
| 5.4 |  | Gain formal deliverable acceptance |  |  |
| 5.5 |  | Document lessons learned |  |  |
| 5.6 |  | Archive files and documents |  |  |
| 5.7 |  | closure of contract |  |  |