

Work Breakdown Structure

<Project Name>

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# Introduction

The Work Breakdown Structure (WBS) is a view into the project which shows what work the project encompasses. It is a tool which helps to easily communicate the work and processes involved to execute the project. The Project Manager and project team use the WBS to develop the project schedule, resource requirements and costs. The objective should be to capture 100% of the work for the project.

There are many ways to present the WBS for a project and this template provides many of the most popular layouts from which to choose. Depending on where the WBS is placed in the project plan, a different layout may be more suitable. For instance, many Project Managers include a high level WBS within the project plan, and a more detailed version as an appendix to the plan.

To save space in this template, WBS examples are developed to the third level only. In most projects, the approach to the WBS use the 8 to 80 rule, which states that the WBS should be decomposed down to a work package containing between 8 and 80 hours of work to complete.

The Work Breakdown Structure (WBS) presented in this document represents the work required to complete [PROJECT NAME].

# Outline View

The outline view presents an easy to view and understand layout for the WBS. It is also a good layout to use when developing the WBS because changes can easily be made, especially since the Microsoft Word auto numbering feature updates the WBS Code automatically.

1. Widget Management System
   1. Initiation
      1. Evaluation & Recommendations
      2. Develop Project Charter
      3. *Deliverable:* Submit Project Charter
      4. Project Sponsor Reviews Project Charter
      5. Project Charter Signed/Approved
   2. Planning
      1. Create Preliminary Scope Statement
      2. Determine Project Team
      3. Project Team Kickoff Meeting
      4. Develop Project Plan
      5. Submit Project Plan
      6. *Milestone:* Project Plan Approval
   3. Execution
      1. Project Kickoff Meeting
      2. Verify & Validate User Requirements
      3. Design System
      4. Procure Hardware/Software
      5. Install Development System
      6. Testing Phase
      7. Install Live System
      8. User Training
      9. Go Live
   4. Control
      1. Project Management
      2. Project Status Meetings
      3. Risk Management
      4. Update Project Management Plan
   5. Closeout
      1. Audit Procurement
      2. Document Lessons Learned
      3. Update Files/Records
      4. Gain Formal Acceptance
      5. Archive Files/Documents

# Hierarchical Structure

The hierarchal structure is similar to the outline view but without indentation. Although this format is more difficult to read, it may be useful where there are many levels. Indenting each level may potentially cause the table to be too sizable to fit into a document.

|  |  |  |
| --- | --- | --- |
| Level | WBS Code | Element Name |
| 1 | 1 | Widget Management System |
| 2 | 1.1 | Initiation |
| 3 | 1.1.1 | Evaluation & Recommendations |
| 3 | 1.1.2 | Develop Project Charter |
| 3 | 1.1.3 | Deliverable: Submit Project Charter |
| 3 | 1.1.4 | Project Sponsor Reviews Project Charter |
| 3 | 1.1.5 | Project Charter Signed/Approved |
| 2 | 1.2 | Planning |
| 3 | 1.2.1 | Create Preliminary Scope Statement |
| 3 | 1.2.2 | Determine Project Team |
| 3 | 1.2.3 | Project Team Kickoff Meeting |
| 3 | 1.2.4 | Develop Project Plan |
| 3 | 1.2.5 | Submit Project Plan |
| 3 | 1.2.6 | Milestone: Project Plan Approval |
| 2 | 1.3 | Execution |
| 3 | 1.3.1 | Project Kickoff Meeting |
| 3 | 1.3.2 | Verify & Validate User Requirements |
| 3 | 1.3.3 | Design System |
| 3 | 1.3.4 | Procure Hardware/Software |
| 3 | 1.3.5 | Install Development System |
| 3 | 1.3.6 | Testing Phase |
| 3 | 1.3.7 | Install Live System |
| 3 | 1.3.8 | User Training |
| 3 | 1.3.9 | Go Live |
| 2 | 1.4 | Control |
| 3 | 1.4.1 | Project Management |
| 3 | 1.4.2 | Project Status Meetings |
| 3 | 1.4.3 | Risk Management |
| 3 | 1.4.4 | Update Project Management Plan |
| 2 | 1.5 | Closeout |
| 3 | 1.5.1 | Audit Procurement |
| 3 | 1.5.2 | Document Lessons Learned |
| 3 | 1.5.3 | Update Files/Records |
| 3 | 1.5.4 | Gain Formal Acceptance |
| 3 | 1.5.5 | Archive Files/Documents |

Table : Hierarchical structure

# Tabular View

The Tabular View is a nicely organized table view of the WBS. It is a good option for organizations that prefer table formats.

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Level 3 |
| 1 Widget Management System | 1.1 Initiation | 1.1.1 Evaluation & Recommendations  1.1.2 Develop Project Charter  1.1.3 Deliverable: Submit Project Charter  1.1.4 Project Sponsor Reviews Project Charter  1.1.5 Project Charter Signed/Approved |
| 1.2 Planning | 1.2.1 Create Preliminary Scope Statement  1.2.2 Determine Project Team  1.2.3 Project Team Kickoff Meeting  1.2.4 Develop Project Plan  1.2.5 Submit Project Plan  1.2.6 Milestone: Project Plan Approval |
| 1.3 Execution | 1.3.1 Project Kickoff Meeting  1.3.2 Verify & Validate User Requirements  1.3.3 Design System  1.3.4 Procure Hardware/Software  1.3.5 Install Development System  1.3.6 Testing Phase  1.3.7 Install Live System  1.3.8 User Training  1.3.9 Go Live |
| 1.4 Control | 1.4.1 Project Management  1.4.2 Project Status Meetings  1.4.3 Risk Management  1.4.4 Update Project Management Plan |
| 1.5 Closeout | 1.5.1 Audit Procurement  1.5.2 Document Lessons Learned  1.5.3 Update Files/Records  1.5.4 Gain Formal Acceptance  1.5.5 Archive Files/Documents |

Table : Tabular view

# Tree Structure View

The Tree Structure View is the most popular format for the WBS. It presents an easy to understand view into the WBS; however, it is problematic to create without access to an application specifically designed for creating this organizational chart structure. The Tree Structure below was created using only Microsoft Word and the SmartArt graphics option under the insert menu.

Figure : Tree structure

# WBS Dictionary

The WBS Dictionary contains all the details of the WBS which are necessary to successfully complete the project. Most importantly it contains a definition of each Work Package, which can be thought of as a mini scope statement. Resources on the project will review the WBS dictionary to determine the scope of the Work Package they've been assigned, so it is important to be clear when writing the definition. Most WBS dictionaries contain more information than is shown in this sample, such as level of effort, cost control numbers, resource assignments, responsibility assignments, etc.

| **WBS Dictionary** | | | |
| --- | --- | --- | --- |
| Level | WBS Code | Element Name | Definition |
| 1 | 1 | Widget Management System | All work to implement a new widget management system. |
| 2 | 1.1 | Initiation | The work to initiate the project. |
| 3 | 1.1.1 | Evaluation & Recommendations | Working group to evaluate solution sets and make recommendations. |
| 3 | 1.1.2 | Develop Project Charter | Project Manager to develop the Project Charter. |
| 3 | 1.1.3 | Deliverable: Submit Project Charter | Project Charter is delivered to the Project Sponsor. |
| 3 | 1.1.4 | Project Sponsor Reviews Project Charter | Project sponsor reviews the Project Charter. |
| 3 | 1.1.5 | Project Charter Signed/Approved | The Project Sponsor signs the Project Charter which authorizes the Project Manager to move to the Planning Process. |
| 2 | 1.2 | Planning | The work for the planning process for the project. |
| 3 | 1.2.1 | Create Preliminary Scope Statement | Project Manager creates a Preliminary Scope Statement. |
| 3 | 1.2.2 | Determine Project Team | The Project Manager determines the project team and requests the resources. |
| 3 | 1.2.3 | Project Team Kickoff Meeting | The planning process is officially started with a project kickoff meeting which includes the Project Manager, Project Team and Project Sponsor (optional). |
| 3 | 1.2.4 | Develop Project Plan | Under the direction of the Project Manager the team develops the project plan. |
| 3 | 1.2.5 | Submit Project Plan | Project Manager submits the project plan for approval. |
| 3 | 1.2.6 | Milestone: Project Plan Approval | The project plan is approved and the Project Manager has permission to proceed to execute the project according to the project plan. |
| 2 | 1.3 | Execution | Work involved to execute the project. |
| 3 | 1.3.1 | Project Kickoff Meeting | Project Manager conducts a formal kick off meeting with the project team, project stakeholders and project sponsor. |
| 3 | 1.3.2 | Verify & Validate User Requirements | The original user requirements is reviewed by the project manager and team, and then validated with the users/stakeholders. This is where additional clarification may be needed. |
| 3 | 1.3.3 | Design System | The technical resources design the new widget management system. |
| 3 | 1.3.4 | Procure Hardware/Software | The procurement of all hardware, software and facility needs for the project. |
| 3 | 1.3.5 | Install Development System | Team installs a development system for testing and customizations of user interfaces. |
| 3 | 1.3.6 | Testing Phase | The system is tested with a select set of users. |
| 3 | 1.3.7 | Install Live System | The actual system is installed and configured. |
| 3 | 1.3.8 | User Training | All users are provided with a four hours training class. Additionally, managers are provided with an additional two hours class to cover advanced reporting. |
| 3 | 1.3.9 | Go Live | System goes live with all users. |
| 2 | 1.4 | Control | The work involved for the control process of the project. |
| 3 | 1.4.1 | Project Management | Overall project management for the project. |
| 3 | 1.4.2 | Project Status Meetings | Weekly team status meetings. |
| 3 | 1.4.3 | Risk Management | Risk management efforts as defined in the Risk Management Plan. |
| 3 | 1.4.4 | Update Project Management Plan | Project Manager updates the Project Management Plan as the project progresses. |
| 2 | 1.5 | Closeout | The work to close-out the project. |
| 3 | 1.5.1 | Audit Procurement | An audit of all hardware and software procured for the project. Ensures that all procured products are accounted for and in the asset management system. |
| 3 | 1.5.2 | Document Lessons Learned | Project Manager along with the project team performs a lessons learned meeting and documents the lessons learned for the project. |
| 3 | 1.5.3 | Update Files/Records | All files and records are updated to reflect the widget management system. |
| 3 | 1.5.4 | Gain Formal Acceptance | The Project Sponsor formally accepts the project by signing the acceptance document included in the project plan. |
| 3 | 1.5.5 | Archive Files/Documents | All project related files and documents are formally archived. |

Table : WBS dictionary

# Glossary of Terms

It is important to provide a glossary of terms as some of the terms are not well understood by persons without a project management background. For instance the PMI *Practice Standard for Work Breakdown Structures* reference to the ‘WBS Code’ is commonly referred to as the ‘WBS number’.

| **Term** | **Definition** |
| --- | --- |
| Level of Effort | Level of Effort (LOE) is how much work is required to complete a task. |
| WBS Code | A unique identifier assigned to each element in a Work Breakdown Structure for the purpose of designating the elements hierarchical location within the WBS. |
| Work Package | A Work Package is a deliverable or work component at the lowest level of its WBS branch. |
| WBS Component | A component of a WBS which is located at any level. It can be a Work Package or a WBS Element as there's no restriction on what a WBS Component is. |
| WBS Element | A WBS Element is a single WBS component and its associated attributes located anywhere within a WBS. A WBS Element can contain work, or it can contain other WBS Elements or Work Packages. |

Table : Glossary of terms

# Appendix