

# Project Management

## Topic 4.2

### Work Breakdown Structure (WBS)



# Work Breakdown Structure (WBS)

**WBS is the foundation of all project management functions involving ...**

- Budgeting
- Scheduling
- Resource Allocation
- Tracking
- Evaluation

# Work Breakdown Structure Contents

- Once the project objectives are set, a list of all activities required to complete the project is made.
- A WBS is a structured list of all the activities required to complete the project
- The WBS is displayed as a hierarchical tree of end items to be accomplished.
- Each item in the WBS is usually coded to identify its position in the list

# WBS First Level Decomposition

Project Phases

Functional Components

Major Deliverables

Sub-projects

Product Components

# 4.2.1 Class Exercise



## Wagon WBS



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# 4.2.1 Team Exercise



## Kitchen Project WBS

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# Work Package

- Lowest level in WBS
- It is the basis for estimating, scheduling, executing, monitoring, & controlling
- No specified number of levels
- Too much detail is inefficient, inhibits worker creativity, and creates a burden in reporting
- Too little detail yields poor estimates, surprises, and late problem identification

# Work Package Attributes

- **Set of Inputs**
  - Predecessors, preconditions, resources, and all other requirements
- **Task Description**
  - Statement of work, time and resources, cost, owner, quality verification means
- **Deliverables – Measurable Results**