



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

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(PMG506)

Advanced project Management

(Roshan Villas project)

1 Introduction:

The Roshan Villas project is one of the Public Investment Fund companies and aims to build 30,000 housing units on an area of 20 million square meters. Quality and integrated facilities commensurate with the aspirations of the Saudi society. It will increase personal ownership by 70 over the next ten years. The project is now in the stage of laying the foundations for the villas, and the project aims in the first phase to build 4,000 housing units by the end of 2024.

In this project, my role as an engineer is to supervise and planning the works of constructing villas by following up the plans and making sure that the contractors work from the foundations to the final stage. Through this project we need to define project milestones and activities for the team. This paper will address how project milestones are defined and why they are important to project workflow. Milestones a way to know project progress and follow up activities, it is the most important way to plan the project.

2.0 Literature Review:

Through previous studies, it indicates that no matter how small or large the size of the project, the completion of the project includes small and large steps to supervise the project. Therefore, the project must be planned to complete the success of the project and reach the final goal. One way to ensure project success is to define project milestones.

2.1 Milestones of the project:

Project milestones are one of the project planning tools from start to finish, as processes and activities are easy to track. If a milestone focuses on major progress points in a project, you can see how it is useful in scheduling (1). Project milestones provide a way to accurately estimate the time to complete the project, so it is important for project scheduling, by dividing it into a short time frame to facilitate the control process.

2.2 Gantt chart:

A project management tool that helps in planning and scheduling projects, by displaying the start and end dates of each process. It also contributes to allocating resources and identifying problems, through which the project can be followed up if it is behind schedule and brought back on the right track. simplicity. Gantt charts are time-scaled; that is, the length of a bar represent-in a certain activity is proportional to the duration of that activity. Just by looking at the chart, you can get an idea of the duration of each activity and the entire project (2).

2.3 work breakdown structure (WBS):

It is the process of dividing the project into small components in a hierarchical manner to achieve the project goals and create the required outputs. The upper levels of the project that are deliverable and the lower levels are called work packages, include activities that can be tracked and budgeted. Today, Project Managers are more frequently finding high value in the creation of Work Breakdown Structures (WBS) as they begin the process of project management. Project success may be attributed specifically to use of a WBS (3).

3.0 Methodology:

Through researching studies, the WBS– framework is an effective tool for the accumulation, storage, and retrieval of information at the individual and organizational levels. By using templates of work breakdown structures as the project dictionary, it is possible to accumulate information about the actual cost duration and risks of project activities and work packages. This information is the basis for a continuous learning process by which, from one project to the next, a database is developed to support better project planning and management as well as the training of individuals and groups.

4.0 results and Discussion:

Experienced project managers know there are many things that can go wrong in projects regardless of how successfully they plan and execute their work. Component or full-project failures, when they do occur, can often be traced to a poorly developed or nonexistent WBS. A poorly constructed WBS can result in adverse project outcomes including ongoing, repeated project re-plans and extensions, unclear work assignments, scope creep or unmanageable, frequently changing scope, budget overrun, missed deadlines and unusable new products or delivered features. The WBS is a foundational building block to initiating, planning, executing, and monitoring and controlling processes used to manage projects as they are described in the PMBOK® Guide. WBS utilizes the Project Charter as its starting point. The high-level elements in the WBS should match, word-for-word, the nouns used to describe the outcomes of the project in the Scope Statement. In addition, the Resource Breakdown Structure (RBS) describes the project's resource organization and can be used in conjunction with the WBS to define work package assignments. The WBS Dictionary defines, details, and clarifies the various elements of the WBS. The Network Diagram is a sequential arrangement of the work defined by the WBS and the elements of the WBS are starting points for defining the activities included in the Project Schedule.

5 References:

1. Jason Westland-(2020) " What Are Milestones in Project Management?"
2. Saleh A. Mubarak – (2015) " Bar(Gantt)Charts"
3. Kerzner H. (1997). Project management: A systems approach to planning, scheduling, and controlling (6th ed.)