



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Course

Code

Thursday

Master

Date

18 / 03 / 2021.

(PMG506)

Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-20 في تمام الساعة 9 مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الإنجليزية.
- يتم تسليم المشروع في صيغة ملف . pdf مع الالتزام نموذج الجامعة ولن تقبل أي مستندات أخرى.
- يجب مراعاة أقسام البحث الرئيسية (مقدمة Introduction، دراسات علمية سابقة Literature Review، طريقة البحث Methodology، النتائج والمناقشة Results and Discussion ، وأخيراً المراجع References . وان كان هناك ملحقات Appendices يتم إضافتها)
- يجب الالتزام بـ Theme موحد كما يلي:
- حجم الخط 12.
- نوع الخط Arial.
- لون الخط أسود.
- المسافة بين الأسطر 1.5 line spacing

• عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: ~~Eng. Amaal Aburumman~~ **Eng. Dr. Akram M. S. Ali**

Project:

You are required to document your role in administering a project. The project may be set in a business, social, sporting, or family environment but must be of a significant size and scale. If you do not have an actual project to write about you may complete the project hypothetically.

This report will be between three to six pages in length. This is a significant research project.

Your report must address ~~each~~ **ONE** of the following issues:

1. Identify and describe the purpose, scope, and objectives of the project. **Display this information using an appropriate tool.**
2. Describe how the team is given an outline of the project.
3. Describe the strategies that are going to be set up to maintain communication with the team members.
4. Describe the tools that are going to be used to monitor the goals, time frames or milestones.
5. Identify project milestones and activities. **Display this information using an appropriate tool.**
6. Create a budget and link the costs to the key milestones for a project.
7. Describe how you are going to divide tasks and resources amongst a project team. **Display this information using an appropriate tool.**
8. Briefly describe how the progress will be monitored.
9. How are current project records maintained? Who has responsibility for this? provide some recommendations on how this process could be improved.
10. Describe the current procedure for finalizing projects. Create your own procedure and identify how you will evaluate the success of the project.
11. Legislation that may affect the project including health and safety, and anti-discrimination legislation.

Best of luck...

المشروع:

مطلوب منك توثيق دورك في إدارة مشروع. قد يتم تعيين المشروع في بيئة تجارية أو اجتماعية أو رياضية أو عائلية ولكن يجب أن يكون بحجم مناسب. إذا لم يكن لديك مشروع فعلي لتكتب عنه ، فيمكنك إكمال المشروع افتراضياً. سيكون هذا التقرير من ثلاث إلى ست صفحات.

يجب أن يعالج تقريرك ~~كل~~ **احد** القضايا التالية:

1. تحديد ووصف الغرض والنطاق والأهداف من المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
2. صف كيف يتم إعطاء الفريق مخططاً تفصيلياً للمشروع.
3. وصف الاستراتيجيات التي سيتم وضعها للحفاظ على التواصل مع أعضاء الفريق.
4. صف الأدوات التي سيتم استخدامها لرصد الأهداف أو الأطر الزمنية أو المعالم.
5. تحديد معالم المشروع والأنشطة. اعرض هذه المعلومات باستخدام أداة مناسبة.
6. إنشاء موازنة وربط التكاليف بالمعالم الرئيسية للمشروع.
7. صف كيف ستقوم بتقسيم المهام والموارد بين فريق المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
8. صف بإيجاز كيف سيتم رصد التقدم.
9. كيف يتم الاحتفاظ بسجلات المشروع الحالية؟ من المسؤول عن هذا؟ تقديم بعض التوصيات حول كيفية تحسين هذه العملية.
10. وصف الإجراء الحالي لإنهاء المشاريع. قم بإنشاء الإجراء الخاص بك وحدد كيفية تقييم نجاح المشروع.
11. التشريعات التي قد تؤثر على المشروع بما في ذلك الصحة والسلامة ، وتشريعات مكافحة التمييز.

مع تمنياتي بالتوفيق..

The impact of WBS technique and top-down approach in project success

(Land Survey Project in Saudi Arabia Railways SAR)

1. Introduction

Surveying is the process of determining the relative position of natural and manmade features on or under the earth's surface, the presentation of this information either graphically in the form of plans or numerically in the form of tables, and the setting out of measurements on the earth's surface. It usually involves measurement, calculations, the production of plans, and the determination of specific locations. The surveyor may be called on to determine heights and distances; to set out buildings, bridges and roadways; to determine areas and volumes and to draw plans at a predetermined scale. There are two major categories of surveying: Plane Surveying that deals with areas of limited extent and it is assumed that the earth's surface is a plane and therefore no corrections necessary for the earth's curvature. Geodetic surveying that concerned with determining the size and shape of the earth and it also provides a high-accuracy framework for the control of lower-order surveys. The highest standards of accuracy are necessary. Geodetic surveys cover relatively large areas (e.g. a state or country) for which the effects of earth curvature must be considered.

Surveying offers crucial details for construction project preparation and design. It specifically offers information about markers and reference points that can be used to direct new building construction (as well as reconstruction and renovation). This will accurately assess the project's reach. Furthermore, it can assist in adhering to council standards and regulations.

From the land survey project, the company hopes to include data and three-dimensional models to help with decision-making. It also aims to keep track of damage to train tracks and their components in order to perform repairs as soon as possible.

After Project charter, SoW creation and determined the main deliverables and millstones for the project. It is one of the most important task in planning to me as a project manager to create a clear (Work Breakdown Structure)-WBS.

A work breakdown structure (WBS) is a map or paper that organizes project work into a list of work packages (activities and tasks) so that everyone remains on track to achieve the project's objectives. A Work breakdown is a project management tool that sets out all of the tasks that a project must complete, organizes them into different stages, and graphically shows them. It's a deliverable-based strategy, which means you'll end up with a comprehensive project plan detailing the deliverables you'll need to complete the project. This research aims to determine the effectiveness of WBS in Land Survey Project.

2. Literature review

2.1 Impact of various work-breakdown structures on project conceptualization

In order to properly manage a project, it is necessary to create a work-breakdown structure (WBS) and identify work packages so that they can be delegated to organizational units correctly. The WBS can be thought of as a project's taxonomy. Despite the fact that they all describe the same project, there are many different WBS patterns that can be created. During project execution, however, various WBS trends necessitate different organizational frameworks and management styles. As a result, even at the very early stage of proposal submission, the WBS designer has a huge influence on the way a project will be handled, even without even realizing it. A discrepancy between the project WBS, organizational structure, and the project manager's management style has a negative effect on the project manager's ability to complete the project successfully. If the project's numerous stakeholders each create their own WBS, chaos ensues. The paper addresses the above concerns and provides an overview of the various WBS options for a hypothetical project, as well as the potential effect of the options on the desired organizational structure and management style.

2.2 A SURVEY TECHNIQUES USED BY CONTRACTORS IN SAUDI ARABIA

The Work Breakdown Structure (WBS) methods used by Saudi contractors to break down construction projects into work items for cost control are revealed in this research. The factors that influence the degree of breakdown in construction projects are also discussed, as well as their relative importance. The most popular methods used by Saudi contractors are standard item headings pre-defined at head office, work item headings specially customized to project WBS, division of work into major structural components and locations, and division of work into main resource categories per time. The most important factors influencing the depth of WBS are a tight project schedule and the use of computers.

2.3 WBS top down approach

The primary goal of this paper is to assess how competency-based approaches to staff management can and should contribute to an organization's overall effectiveness. The value of competencies and proper management is widely recognized in the literature, and the first section of the paper is devoted to a study of the literature. The design and implementation of two competence management programs that were implemented in two central banks, one in a western European country and the other in a central European country, are then compared. A brief presentation of two fundamental approaches to competence management implementation in an enterprise (top-down (directive) and bottom-up (participative)) is juxtaposed with real competence management model implementation in two central banks. As a result of the comparison, possible challenges to the implementation of competence management models in organizations are identified, along with suggestions about how to counteract them.

3. Methodology

In order to address the efficacy of WBS using a top-down approach and present it as a chart in land survey projects, the approach combines research components. Personal information, secondary publications, and previous studies, as well as academic papers, were all used to compile the data.

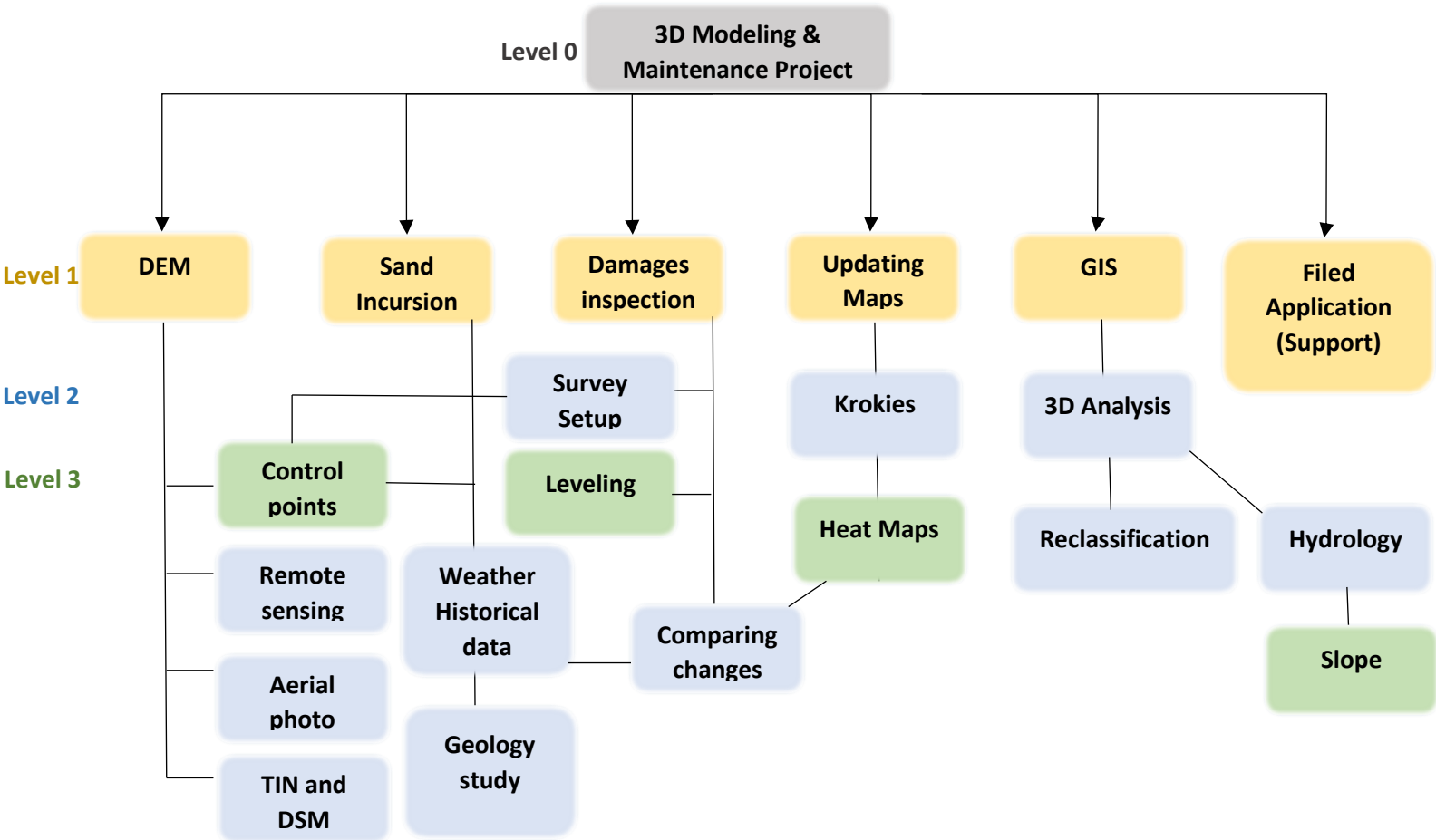
4. Result and discussion

The Work Breakdown Structure (WBS) can be applied to every job a surveyor does. Here we'll breakdown of our Millstones. The company is asking for three-dimensional models to help with decision-making. It also aims to keep track of damage to train tracks and their components in order to perform repairs as soon as possible. The basic processes involved in creating a 3D and monitoring maintenance by survey are listed below. The steps for creating the WBS based on these processes follows. In principle, any project in any field can be broken down into its base components following the same methods.

The WBS using Top-Down approach with my project proven its effectiveness as we have achieved the millstones by dividing them to tasks into smaller activities in order to facilitate, control, implementation and monitoring. This strategy made it easier for us to follow up the work and monitor the delay and the need for more workers to speed up the work and deliver it on time. As all the activities are linked together in complete integration to achieve the greater goal of the organization.

The efficiency of a project's Work Breakdown Structure will decide the project's progress, at the risk of sounding melodramatic. Project planning, cost forecasting, scheduling, and resource utilization, as well as risk management, are all based on the WBS.

We recommend to use the WBS for any land survey project either it small or big project. All the goals will be achieved with accurate time and cost. Also you will have the advantages as a project manager to control and monitor the project better.



5. References

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- 5) A SURVEY OF WBS TECHNIQUES USED BY CONTRACTORS IN SAUDI ARABIA Dr. Ali A. Shash King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. <https://www.irbnet.de/daten/iconda/CIB9399.pdf>
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