



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

Student Name	Moayad Alhaidri مؤيد ابوالغيث الحيدري	اسم الطالب
Students I.D	2021200897 ٢٠٢١٢٠٠٨٩٧	الرقم الجامعي

Section

Master

Date

Thursday

18 / 03 / 2021.

Course Code

(PMG506)

Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-8-29 في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الانجليزية.
- 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. سيتكون 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 مخططًا تفصيليًا 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..

Effect of Adding Major Milestones on the Progress of a Mega Project - The Hoover Dam of Black Canyon Study Case

Introduction

By definition, a project milestone could also be a task of zero duration that defines an important achievement during a project. A milestone could even be a due to understand how the project is advancing once you're not conversant in all the small tasks being executed within the meantime. The zero duration shows that you simply technically don't care what proportion time it took to understand it since it symbolizes a specific achievement or an important point of sometime during a project.

Consider if all tasks, big and tiny, during a project got the same significance in terms of importance and management. A project plan may contain dozens, hundreds or even thousands of tasks and rendering them equally important would technically cause micromanagement in its most absurd, extreme fashion. It would become impossible to plan for any more steps or make necessary changes to projects if needed.

Project milestones are often effectively wont to determine whether a project goes to achieve success. Also, milestones can function hints about the way to proceed with the project after a particular point of the time and increase the probabilities of the project/future project's success.

In this research, a famous civil engineering landmark in the world last century will be the study case. The Hoover Dam. Through studying the effect of adding major milestones hypothetically and its effect on the progress of the project.

Literature Review

Important deadlines in a project program are highlighted by specific points in time called milestones. These are timeless activities usually at the beginning or end of a phase or stage and are used for monitoring purposes throughout the life of the project. Needless to say, they should be SMART, which is an acronym for Specific, Measurable, Achievable, Realistic, Timebound. (Albert Lester, 2017).

Often milestones are used to act as trigger points for progress payments or deadlines for receipt of vital information, permits or equipment deliveries.

Major milestones include completion of certain tasks or deliverables by a specified date and are typically requested by those issuing the charter. The key word here is major; you should limit the number of major milestones to those that are absolutely vital. Specifying three to five is a dominant practice. In other words, given the charter's purpose and the related level of detail, developing a long list of milestones is unnecessary, especially at this early stage of project initiation. (Russ J. Martinelli & Dragan Z. Milosevic, 2016).

Milestone is usually the scheduled date for either the start or the completion of some difficult or important aspect of the project. On large projects, contractors frequently establish a series of milestones extending throughout the project and use these as reference points for project monitoring. (S. Keoki Sears & Glenn A. Sears & Richard H. Clough, 2008).

Methodology

Preface

The Hoover Dam is a concrete dam in the Black Canyon of the Colorado River. The Boulder Canyon Project act was approved in June 1929, in the Great Depression. In the early 1930s thousands of people travelled to the region in the hope of obtaining employment. Construction began in 1931 and was completed in 1935 two years ahead of schedule.

Tools

The major milestones in this mega project were:

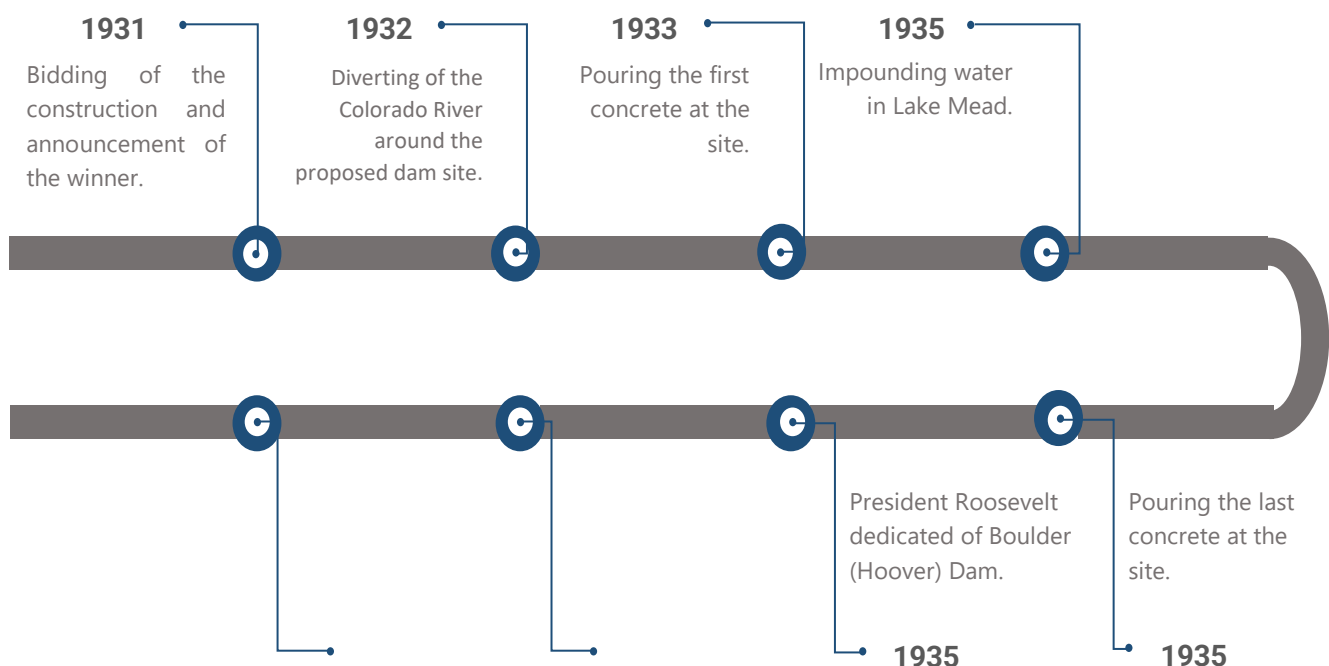
- Bidding of the construction and announcement of the winner.
- Diverting of the Colorado River around the proposed dam site.
- Pouring the first concrete at the site.
- Impounding water in Lake Mead
- Pouring the last concrete at the site.
- President Roosevelt dedicated of Boulder (Hoover) Dam.

Each milestone will be given an estimated weight based on two factors:

- Percentage of work
- Duration

After that, the milestones will be estimated by adding one more. The overall progress of the project will be assessed based on the new milestones' insertions.

The Hoover Dam Milestones Timeline



Milestone Description	Planned Time Elapsed (months)	Completed Planned Work (percentage)	Actual Time Elapsed (months)	Completed Actual Work (percentage)
Bidding of the construction and announcement of the winner	0	0.00%	0	0.00%
Diverting of the Colorado River around the proposed dam site	20	25.64%	20	37.04%
Pouring the first concrete at the site	27	34.61%	27	50.00%
Impounding water in Lake Mead	47	60.25%	47	87.04%
Pouring the last concrete at the site	50	64.10%	50	92.59%
President Roosevelt dedicated of Boulder (Hoover) Dam	54	69.23%	54	100.00%
Blank	62	79.49%	-	-
Blank	70	89.74%	-	-
Blank	78	100.00%	-	-
Total	78	100.00%	54	100.00%

Table 1: Comparison between planned vs. actual completed work

Results and Discussion

It is merely observed that the schedule had been underestimated, as the project had been completed about 70% of the planned schedule. A lot of savings would take place if those milestones were considered, especially regarding labors. More than 100 mortality had taken a place would be avoided. Cost (e.g. additional equipment, overtime) would be saved. This needs further studies and researches about the Hoover Dam. Potential results will be successful and safer keys for similar futural projects.

References:

1. S. Keoki Sears & Glenn A. Sears & Richard H. Clough, (2008). Construction Project Management. A Practical Guide to Field Construction Management.
2. Albert Lester, (2017). Project Management, Planning and Control. Managing Engineering, Construction and Manufacturing Projects to PMI, APM and BSI Standards.
3. Russ J. Martinelli & Dragan Z. Milosevic, (2016). Project Management Toolbox.
4. Owen, J. & Linger, H. (2008). Project management as knowledge work paper presented at PMI® Global Congress 2008 – Asia Pacific, Sydney, New South Wales, Australia. Newtown Square, PA: Project Management Institute.
5. Kwak, Young & Walewski, John & Sleeper, Dana & Sadatsafavi, Hessam. (2014). What can we learn from the Hoover Dam project that influenced modern project management?. International Journal of Project Management. 32. 256–264. 10.1016/j.ijproman.2013.04.002.