

خطة المشروع البحثي

Evaluating the Impact of Risk Management Practices on Project Success in Construction Projects: A Case Study of Saudi Arabia

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Abstract

This research proposal aims to evaluate the impact of risk management practices on the success of construction projects in Saudi Arabia. It investigates how identifying, assessing, and mitigating risks can contribute to project delivery within time, cost, and quality constraints. The study will utilize a quantitative approach and collect data via structured questionnaires.

المخلص

تهدف خطة البحث هذه إلى تقييم تأثير ممارسات إدارة المخاطر على نجاح مشاريع البناء في المملكة العربية السعودية. حيث تستقصي كيف يمكن أن تسهم عملية تحديد المخاطر وتقييمها والتخفيف من آثارها في تحقيق المشروع ضمن الحدود الزمنية والمالية والجودة المطلوبة. ستعتمد الدراسة على منهج كمي باستخدام استبيانات منظمة.

Chapter 1: Introduction

1.1 Background of the Study

Project success remains a critical concern in the construction industry, especially in Saudi Arabia, where rapid development projects are prevalent. Effective risk management is essential to identify and mitigate potential threats that could impact cost, time, and quality.

1.2 Problem Statement

Despite the recognized importance of risk management, many construction projects in Saudi Arabia still experience delays and budget overruns. This research seeks to investigate the extent to which risk management practices affect project outcomes.

1.3 Objectives of the Study

- To identify common risk management practices in construction projects.
- To assess the impact of these practices on project success factors.
- To recommend improvements in risk mitigation strategies.

1.4 Significance of the Study

This study will benefit project managers and policymakers by highlighting effective risk management strategies that enhance project success, especially in the Saudi context.

1.5 Research Questions

- What risk management practices are commonly used in construction projects?
- How do these practices influence project success criteria such as time, cost, and quality?
- What improvements can be made to current risk management approaches?

1.6 Research Hypotheses

H1: There is a significant positive relationship between risk management practices and project success.

H0: There is no significant relationship between risk management practices and project success.

1.7 Theoretical Framework

This study will be based on the Project Risk Management theory, which emphasizes the identification, assessment, and control of project risks.

Chapter 2: Literature Review

2.1 Introduction

The literature on project risk management highlights its importance in minimizing uncertainties and enhancing the chances of project success. This chapter reviews relevant theories, previous studies, and the role of independent and dependent variables in the context of risk management in construction projects.

2.2 Dependent Variable: Project Success

Project success is commonly measured by the extent to which a project is completed on time, within budget, and according to specified quality standards. Additional factors include client satisfaction and project team learning.

2.3 Independent Variable: Risk Management Practices

Risk management practices include risk identification, risk assessment, risk mitigation planning, monitoring, and control. These activities aim to reduce the impact of threats and increase the likelihood of achieving project goals.

2.4 Review of Previous Studies

Previous studies in Saudi Arabia and globally show varying levels of implementation of risk management practices. Many studies agree on the positive correlation between risk management and project performance. However, gaps remain in applying structured risk frameworks in the Saudi construction sector.

2.5 Theoretical Framework of the Study

This study uses the Project Risk Management theory from the PMBOK Guide, which includes risk planning, identification, qualitative and quantitative analysis, response planning, and monitoring as core components of managing uncertainty in projects.

Chapter 3: Research Methodology

3.1 Introduction

This chapter describes the research design, population, sample, data collection methods, and tools used for analysis.

3.2 Research Design

A quantitative research approach will be adopted using a structured questionnaire distributed to project managers and engineers involved in construction projects.

3.3 Population of the Study

The population includes project managers, engineers, and risk officers working in construction firms operating in Saudi Arabia.

3.4 Sample Characteristics and Size

The sample will consist of 100–150 professionals selected using purposive sampling. Inclusion criteria will focus on professionals with at least 3 years of experience in construction project management.

3.5 Data Collection Tools

Data will be collected using a questionnaire covering key aspects of risk management practices and project outcomes.

3.6 Study Boundaries

The study is limited to the construction industry in Saudi Arabia, focusing on projects completed within the last five years.

3.7 Data Analysis Methods

The data will be analyzed using statistical methods such as correlation and regression analysis using SPSS to test the hypothesis and identify relationships between variables.

Chapter 4: Expected Field Study

4.1 Anticipated Data Collection

Data will be collected through electronic surveys shared with professionals in the Saudi construction sector.

4.2 Anticipated Findings

It is expected that the findings will demonstrate a positive correlation between proactive risk management practices and successful project outcomes.

4.3 Expected Recommendations

Recommendations will likely focus on improving risk assessment protocols, integrating risk management into early project planning, and training project personnel.

Appendices

Appendix A: Survey Questionnaire (Draft)

1. Does your organization use a formal risk management process?
2. How frequently are risks reviewed during project execution?
3. Rate the impact of risk management on cost control.
4. What risk response strategies are most common in your projects?

Appendix B: Arabic Abstract

تهدف هذه الدراسة إلى تقييم تأثير ممارسات إدارة المخاطر على نجاح مشاريع البناء في المملكة العربية السعودية . وتركز على كيفية تأثير هذه الممارسات على تسليم المشاريع ضمن الجدول الزمني والميزانية المحددة وبالجودة المطلوبة . سيتم استخدام منهج كمي باستخدام الاستبيانات .

Appendix C: References

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