



**MidOcean University
Faculty of Business Administration
Project Management Department**

Graduation Project – Assignment #2

**The Impact of Project Risk Management on the Success of Construction
Projects in Dammam, Saudi Arabia**

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Abstract

This study examines the impact of project risk management on the success of construction projects in Dammam, Saudi Arabia. Construction projects in the region frequently face challenges such as cost overruns, schedule delays, equipment failures, and safety-related risks. The research focuses on three core components of risk management: risk identification, risk assessment, and risk mitigation.

A quantitative research approach was applied using a structured questionnaire distributed to engineers, supervisors, safety officers, and project managers involved in construction projects. The collected data was analyzed using descriptive statistics, correlation analysis, and regression techniques to determine the strength of the relationship between the study variables.

The findings reveal that effective project risk management significantly enhances project success by improving cost control, schedule performance, quality deliverables, and stakeholder satisfaction. Furthermore, the study highlights the importance of adopting standardized risk procedures, improving communication among project teams, and implementing proactive mitigation strategies.

The study concludes that integrating comprehensive risk management practices is essential for achieving successful construction project outcomes in Dammam and can serve as a model for similar large-scale projects across the region.

Keywords: Project Risk Management, Risk Identification, Risk Assessment, Risk Mitigation, Construction Projects, Project Success.

Chapter One: General Framework

1. Research Questions

- What is the impact of project risk management on the success of construction projects in Dammam?
- To what extent does risk identification influence project success?
- How does risk assessment contribute to project performance?
- What is the effect of risk mitigation strategies on project success?

2. Research Objectives

- To examine the effect of project risk management on project success.
- To determine the influence of risk identification on project outcomes.
- To analyze the role of risk assessment in improving performance.
- To evaluate how risk mitigation contributes to overall project success.

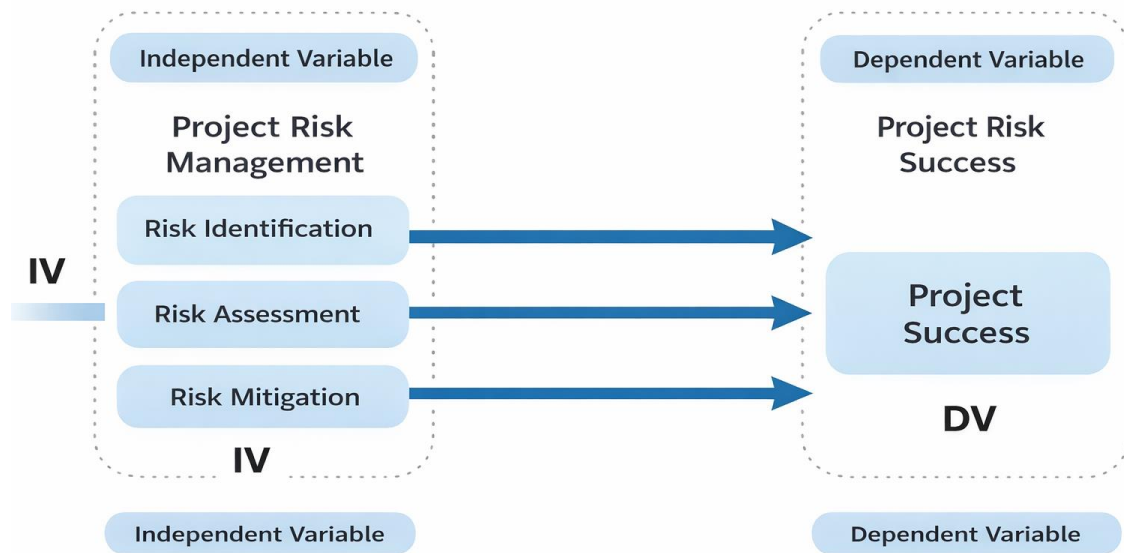
3. Research Hypotheses

- H1: There is a significant relationship between project risk management and project success.
- Ha: Risk identification positively influences project success.
- Hb: Risk assessment positively influences project success.
- Hc: Risk mitigation positively influences project success.

4. Research Model

The following figure represents the research model:

Research Model



Chapter Two: Literature Review

1. Project Risk Management Steps

The major stages of project risk management include identification, assessment, analysis, monitoring, and control.

Risk Management Steps



Research Model: Risk Management & Project Success



2. Summary Table of Risk Management Steps

Step	Description
Risk Identification	Recognizing potential threats before they occur.
Risk Assessment	Evaluating probability and impact.
Risk Analysis	Using tools to estimate severity.
Monitoring	Tracking risks during execution.
Control	Implementing corrective actions.

Chapter Three: Methodology & Study Context

1. Study Context

This study focuses on construction projects in Dammam, Saudi Arabia, where risk management plays a vital role in reducing failures, delays, and cost overruns.

2. Methodology

Research Philosophy	Positivism
Research Approach	Deductive
Research Strategy	Quantitative Survey
Time Horizon	Cross-sectional
Data Collection	Structured Questionnaire
Data Analysis	Descriptive statistics, Correlation, Regression

References

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