

# Integrated Research Proposal

Title:

The Impact of Operational Risk Management Strategies on Business Continuity:

An Applied Study on the Arabian United Flat Glass Company

## 1. Introduction

The flat glass manufacturing industry is characterized by continuous production processes, high-temperature operations, and reliance on complex mechanical and control systems. These conditions make the industry highly vulnerable to operational risks that can disrupt production, affect product quality, and compromise safety.

Operational Risk Management (ORM) has become a critical component in ensuring business continuity, particularly in industrial environments where even minor failures can result in significant downtime and financial losses. This study aims to explore how ORM strategies are implemented within the Arabian United Flat Glass Company and how these strategies contribute to maintaining stable and efficient operations.

## 2. Research Problem

Despite the implementation of various operational risk management practices, manufacturing facilities continue to experience unplanned downtime, equipment failures, and safety incidents. This raises questions about the effectiveness of existing ORM frameworks and their ability to address real operational challenges.

The core problem addressed in this research is the gap between risk management strategies and their actual impact on sustaining uninterrupted production.

## 3. Research Questions

- What are the primary operational risks encountered within the Arabian United Flat Glass Company?
- To what extent are the current ORM strategies effective in maintaining production flow?

- How do specific risk management practices impact business continuity and reduce operational downtime?

#### 4. Research Objectives

- To identify and classify the major operational risks in the flat glass manufacturing environment.
- To evaluate the effectiveness of current ORM strategies in handling operational challenges.
- To analyze the relationship between ORM implementation and production stability.
- To propose practical recommendations aligned with ISO 31000 standards.

#### 5. Significance of the Study

This study is important for both academic and practical purposes. Academically, it contributes to the literature on ORM in industrial environments. Practically, it provides insights that can help improve operational efficiency, reduce downtime, and enhance safety within the company.

#### 6. Research Hypotheses

##### Hypothesis 1:

There is a statistically significant positive relationship between the implementation of structured ORM strategies and business continuity.

##### Hypothesis 2:

Effective management of technical and safety risks leads to a reduction in unplanned operational downtime.

#### 7. Research Model

##### Independent Variable:

Operational Risk Management Strategies (risk identification, mitigation measures, safety procedures)

Dependent Variable:

Business Continuity (production stability, reduced downtime, workforce safety)

## 8. Methodology

This study will adopt a descriptive-analytical approach.

Data Collection:

Primary data will be collected through structured questionnaires distributed to managers, engineers, and technicians. Secondary data will be obtained from company records and relevant literature.

Sampling:

A purposive sampling method will be used to select participants with direct involvement in operations and risk management.

Data Analysis:

Statistical analysis will be conducted using appropriate tools to identify relationships between variables.

## 9. Field Study

The research will be conducted at the Arabian United Flat Glass Company. The facility provides a suitable environment due to its continuous production system and exposure to various operational risks.

## 10. Expected Results

The study is expected to demonstrate that effective ORM practices significantly enhance business continuity by minimizing disruptions and improving response to operational risks.

## 11. Project Structure

Chapter 1: Introduction

Chapter 2: Literature Review

Chapter 3: Methodology

Chapter 4: Data Analysis

Chapter 5: Conclusion and Recommendations

## 12. References

- ISO 31000 Risk Management Guidelines
- Internal company reports
- Academic journals on operational risk management