



How Does ISO Affect Project Management?

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Module: Contemporary Issues in project management

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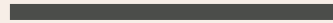
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Introduction



Definitions of Terms

Project Management is the application of processes, methods, skills, knowledge, and experience to achieve specific project objectives according to the project acceptance criteria within agreed parameters. Project management has final deliverables that are constrained to a finite timescale and budget.

A key factor that distinguishes project management from just 'management' is that it has this final deliverable and a finite timespan, unlike management which is an ongoing process. Because of this, a project professional needs a wide range of skills; often technical skills, and certainly people management skills and good business awareness.

Definitions of Terms

- **(ISO)International Organization for Standardization**

stands for International Organization for Standardization. It is an independent, non-governmental international organization that develops and publishes standards for various industries and sectors, including technology, manufacturing, healthcare, and more.

ISO standards are designed to ensure quality, safety, and efficiency in products and services, as well as to promote international trade and collaboration.

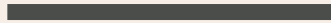
Why is it Considered a Contemporary Issue?

- ISO and project management are a trendy topics because ISO standards provide a framework for project management practices that can help organizations improve their project outcomes. ISO 21500, for example, provides guidance on project management processes and principles, while ISO 9001 sets requirements for quality management systems that can be applied to project management.

The Aim Of The Study

- The aim of the study is: to explore the impact of ISO standards on project management practices and outcomes.
- The study will examine the various ISO standards that are relevant to project management, such as ISO 21500 and ISO 9001, and assess their effectiveness in improving project outcomes.
- The study will also investigate the reasons why organizations are seeking ISO certification and how this affects their project management practices. Ultimately, the study aims to provide insights into the benefits and challenges of adopting ISO standards in project management and to identify best practices for their implementation

Theoretical Framework



Analysis and Methodology

- The summary of empirical findings is based on a research paper based on a literature review and prior research on 14 papers. Many of these research papers used in the theoretical framework were written and published by leading theorists in the field of project management.
- Previous studies have used many data collection methods, including qualitative (interviews) and quantitative (questionnaires), but also primary and secondary sources. Finally, many components and elements of organizational culture are explored in these studies in order to provide comprehensive, substantive, and accurate work and results.

Summary Of Previous Studies

- The study aims to investigate the impact of ISO standards on project management practices and outcomes. The research will use a mixed-methods approach, including a literature review, a survey, and case studies.
- The study will contribute to the existing literature on the topic and provide insights into the benefits and challenges of adopting ISO standards in project management. The findings of the study will be useful for organizations that are considering implementing ISO standards in their project management practices.

Previous study (Literature review)

- A study on the Effects of ISO 9001 Standard on Critical Factors of Project Management in the Construction Industry, This research makes an important contribution to knowledge by identifying the impact of ISO 9001 adoption on the most important project management factors this study used both descriptive and inferential analysis to explore the impact of the ISO 9001 standard on essential aspects of construction project management (quality, schedule, and cost) in large-scale, projects ISO 9001:2008 requirements have eight clauses, the first three of which do not give background information about QMS, and clauses four through eight constitute the major body of the ISO 9001 standard to conform within the organization (Neyestani, et al, 2017)

Previous study (Literature review)

- (V. Lo, P. Humphreys 1 October 2000) The study aimed at Project management benchmarks for SMEs implementing ISO 9000., Major obstacles to ISO 9000 registration are identified and include implementation costs, inadequate resources, and insufficient external assistance. Thus, SMEs require a more cost-effective and well-planned ISO implementation process. Based on case study material from ten companies, located in Hong Kong, the activities involved in obtaining ISO 9000 registration were identified. Project management techniques were then applied to develop a generic project network and resource loading profile for ISO 9000 implementation.

- (V. Lo, P. Humphreys 1 October 2000)

Previous study (Literature review)

- (Wixom, Michigan 2010) This paper describes a project management improvement program according to ISO/IEC 29110 and PMBOK. The findings and lessons learned from the application of the ISO/IEC 29110 standard in four small software development enterprises clustered in a cooperative process improvement initiative are described in this paper. The key outcomes of this program have been the design of a standardized set of processes and procedures on the one hand, and the development of a Process Asset Library to support project management best practices within the participating organizations on the other.

- (Wixom, Michigan 2010)

Previous study (Literature review)

- The findings of a study by (Din et al., 2011) revealed a two-way interaction between a project management system and QMS in a project-oriented structure similar to a construction company. According to the study, ISO 9000 is a quality certification that strives to the appropriate functionality of processes, which if further expanded will improve the organization's performance. Project management as a system is a source of information and experience that aids in the development of a valuable and efficient QMS. (Serpell, 1999) stated that with QMS, there are significant gains in building project results; he also stressed the need for ISO certification. A well-managed project in terms of quality, control, governance, and best audit can only be exercised by adhering to the ISO certification requirements, according to the perspective.

- (Din et al., 2011)

Reflection

- I reviewed 14 papers on How does ISO affect Project Management, With the intention of applying procedures and best practices to enhance project management performance, ISO 21500 was created to provide guidance on the ideas and procedures of project management.
- Although the standard outlines key principles and procedures for project management, it does not offer in-depth advice, and general management topics are restricted to those aspects of project management that are pertinent.
- The Project Management Institute's Body of Knowledge served as a model for the ISO standard, however, there are some significant changes.

Implications

- The implications of this study are that ISO standards have a significant impact on project management practices and outcomes.
- Organizations that adopt ISO standards in their project management practices can benefit from improved project outcomes, increased efficiency, and better risk management.
- However, the adoption of ISO standards also presents challenges such as the need for additional resources and training.
- Therefore, organizations must carefully consider the benefits and challenges associated with adopting ISO standards in their project management practices.
- Additionally, this study highlights the importance of ISO standards in project management and the potential for their widespread adoption to enhance project outcomes across various industries.

Limitations

There are not enough papers about this trendy topic because it has been accelerating rapidly in the past few years. All papers talk about the main ISOs (ISO 21500, ISO9001, ISO10006, ISO31000).

Recommendations

1. Organizations should consider adopting ISO standards in their project management practices to improve project outcomes, increase efficiency, and better manage risks.
2. Prior to adopting ISO standards, organizations should carefully assess the benefits and challenges associated with their adoption, and determine whether they have the necessary resources and expertise to implement them effectively.
3. Organizations should provide training and support to their project management teams to ensure that they are equipped with the skills and knowledge necessary to implement ISO standards effectively.
4. ISO standards should be widely promoted and encouraged across various industries to enhance project outcomes and improve overall project management practices.
5. Further research should be conducted to explore the impact of ISO standards on project management practices in different contexts, such as in small and medium-sized enterprises or in specific industries.

Conclusion

- Based on the proposed study, it can be concluded that ISO standards have a significant impact on project management practices and outcomes.
- The study aims to provide a comprehensive understanding of how ISO standards affect project management practices, including the benefits and challenges associated with their adoption.
- The research will contribute to the existing literature on the topic and provide insights that can be useful for organizations considering implementing ISO standards in their project management practices.
- Overall, the study is expected to highlight the importance of ISO standards in project management and their potential to enhance project outcomes.

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Thank you

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