

Industrial Engineering Indicator | Arab Region

2023



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1

Introduction

1

Introduction

IEOI 2023 Report

Welcome to the 2023 Industrial Engineering Indicators Report for the Arab Region, prepared by the Arab Institute of Industrial Engineering and Management.

This comprehensive report provides a detailed analysis of industrial engineering trends and insights gathered from rigorous surveys conducted across official universities in Jordan, Saudi Arabia, Iraq, and Libya.

In our pursuit to capture a representative view, we meticulously collected data from 4,000 industrial engineers, with a balanced distribution of 1,000 respondents from each country. Our survey methodology encompassed both face-to-face interviews and web-based surveys, ensuring a broad and inclusive approach to data collection.

Throughout this report, we present an overview of the key findings and statistical analyses derived from the data collected throughout the year 2023. These insights aim to illuminate the current state of industrial engineering in the Arab region, offering valuable perspectives on trends, challenges, and opportunities shaping the sector.

Join us as we delve into the intricate fabric of industrial engineering in the Arab world, uncovering the factors driving innovation, efficiency, and growth in this dynamic field.



2

Who We Are

2

Who We Are

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The Arab Institute of Industrial Engineering and Management stands as a beacon of excellence in fostering knowledge and innovation within the industrial engineering sector across the Arab world. Established with a commitment to advancing professional standards and enhancing industry practices, our institute plays a pivotal role in shaping the future of industrial engineering.

At the institute, we are dedicated to equipping professionals with essential skills through comprehensive training courses that cater to diverse needs within the field. Our robust market research initiatives delve deep into educational trends, providing invaluable insights to academic institutions and industry stakeholders alike. Additionally, our rigorous opinion polls offer a nuanced understanding of prevailing sentiments and perspectives within the industrial engineering community.

Through these endeavors, the Arab Institute of Industrial Engineering and Management continues to serve as a cornerstone for knowledge dissemination, research excellence, and strategic development across the Arab region's industrial landscape.



3

Data Order

3

Data Order

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The Data will be shown in the following order:

Development Areas

Specialization

Software

Skills and Challenges

4

Development Areas

4

Development Areas

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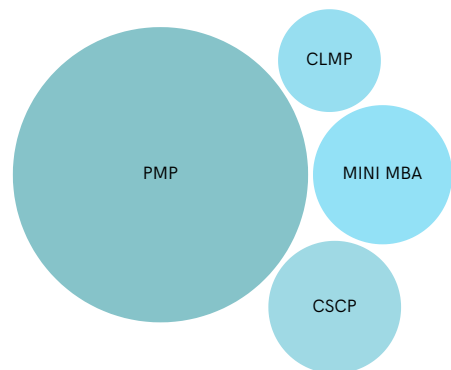
Data surveys in industrial engineering are essential for pinpointing development areas.

They provide critical insights into current practices and emerging trends, guiding efforts to enhance efficiency, innovation, and sustainability in the field.

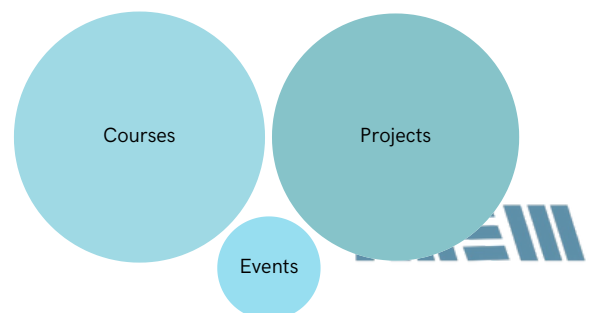
Key Indicator

Data / Outcome

Most Wanted Certificate



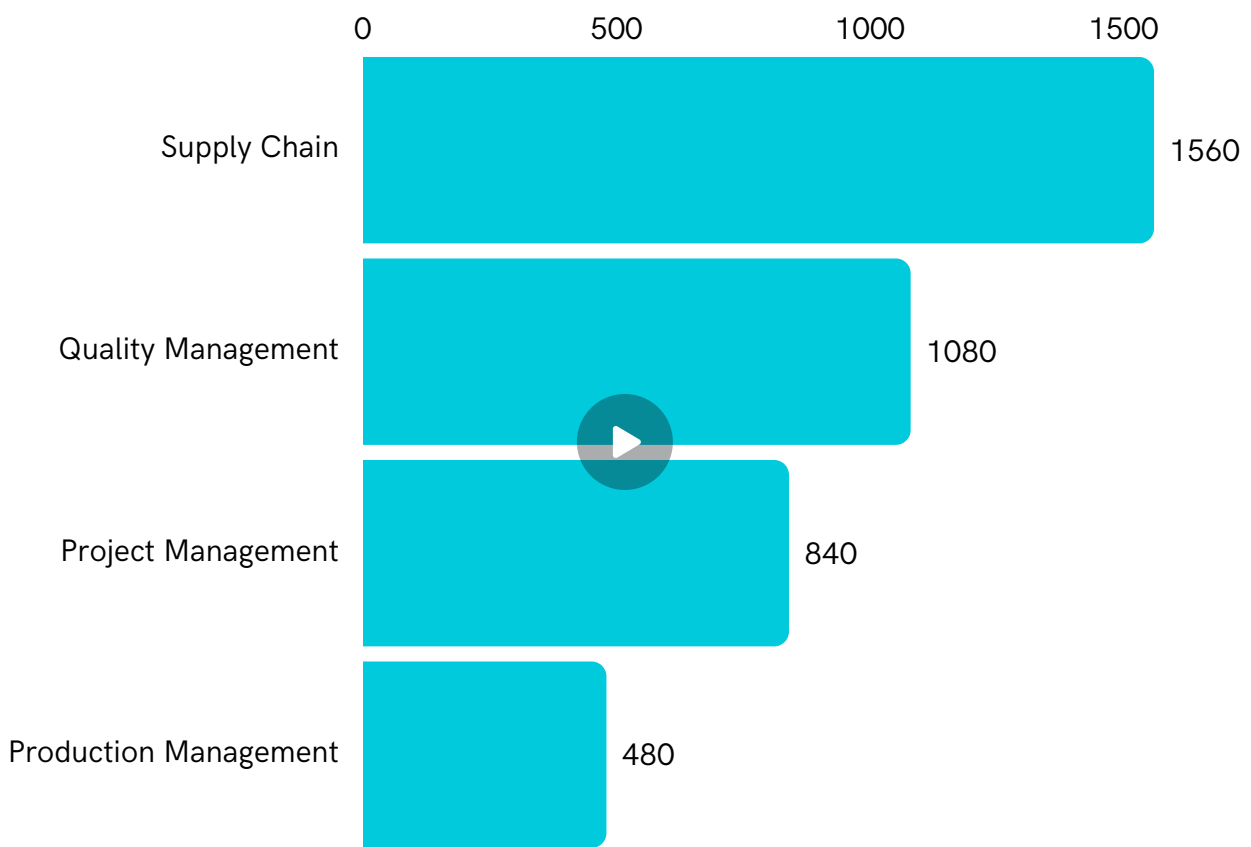
Best Way to develop as a fresh



5 Specialization

Data surveys in industrial engineering reveal preferred specializations such as manufacturing systems, supply chain management, and operations research, guiding educational and professional development efforts accordingly.

Which Specialization do students prefer?



37%

Supply Chain Management



6 Software

6

Software

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Data surveys in industrial engineering also shed light on preferred software tools used by professionals. These surveys identify commonly favored software such as CAD (Computer-Aided Design), simulation software like Arena or Simul8, and optimization tools such as MATLAB or R. Understanding these preferences helps tailor training programs and resource allocation to better support the technological needs of industrial engineers.



AutoCAD 20%



SoildWorks 22%



Minitab 29%



Arena 29%



7

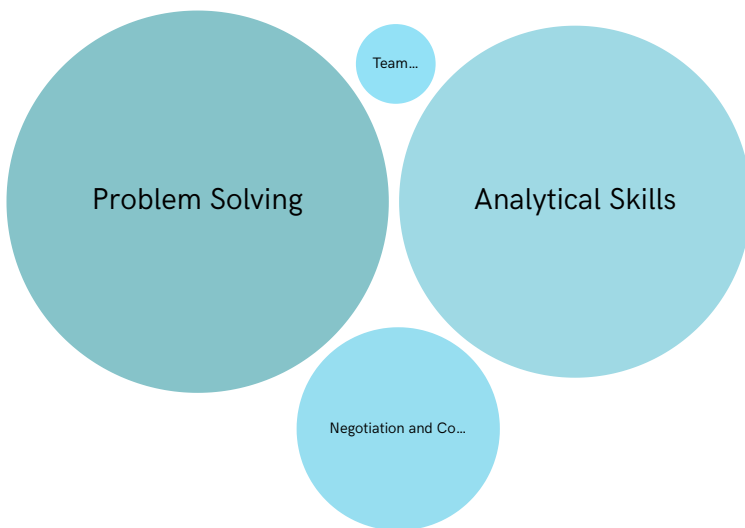
Skills and Challenges

7

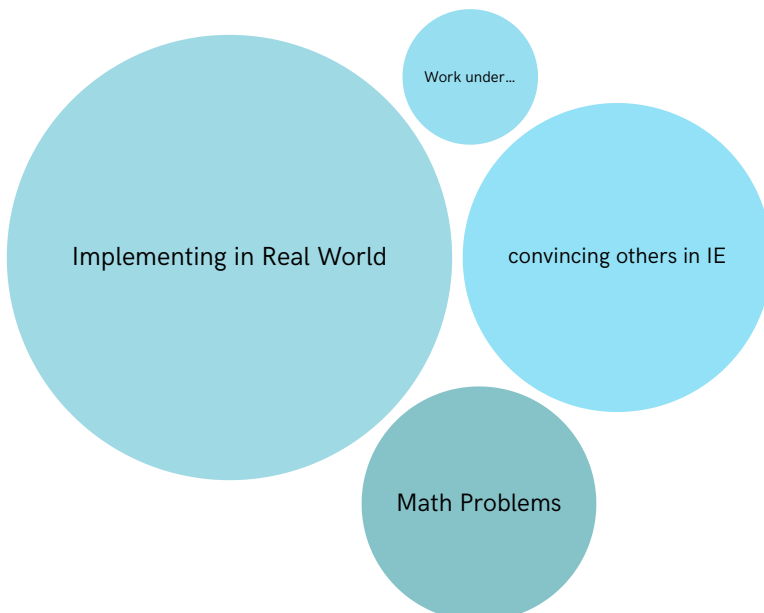
Skills and Challenges

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Data surveys in industrial engineering reveal crucial skills like problem-solving and project management, alongside challenges such as adapting to technology advancements and optimizing manufacturing processes.



Skills



Challenges

8

Conclusion

8

Conclusion

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In conclusion, the data collected through our surveys in industrial engineering provides valuable insights into current trends, challenges, and skills within the field. As we reflect on the findings, we anticipate that next year's surveys will further illuminate shifts in technology adoption, emerging skills demands, and evolving industry dynamics. By continuing to refine our methodologies and expanding our reach across the Arab region, we aim to deepen our understanding and contribute to the advancement of industrial engineering practices. Looking ahead, we are optimistic that our findings will inform proactive strategies to address future challenges and harness opportunities for innovation and growth in the field.



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