

A Seminar on

Engineering Excellence: Insights into Quality Management at JCB India

Activity Report

Academic Year	2024-25
Program Driven by	A Seminar on Engineering Excellence: Insights into Quality Management at JCB India
Quarter	III
Program / Activity Name	A Seminar on Engineering Excellence: Insights into Quality Management at JCB India
Program Type	
Program Theme	Innovation and startups
Start Date	11/03/2025
End Date	11/03/2025
Duration of the Activity (in Mins)	90 approx 2 hr
Number of Student Participant	88
Number of Faculty Participant	5
Number of external Participant	--
Expenditure Amount in Rs.	
Any Remark	Excellent Guidance to students
Mode of Session Delivery	Offline
Objective	<p>The primary objectives of the seminar were:</p> <p>To understand the role and responsibilities of a Quality Engineer at JCB India.</p> <p>To explore the challenges and opportunities in quality management within the manufacturing sector.</p> <p>To guide students on the skills and competencies required for a successful career as a Quality Engineer.</p>
Benefit in terms of Learning / Skills / Knowledge obtained	<p>The session was highly informative and beneficial for students. Key takeaways included:</p> <ul style="list-style-type: none"> ✓ Clear understanding of the role and responsibilities of a Quality Engineer. ✓ Insights into real-world challenges in quality management. ✓ Guidance on the skills and certifications required for career success. ✓ Practical advice on handling quality issues and process improvements.
Feedback	
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached



SSBT's College of Engineering and Technology, Bambhori Jalgaon
(Included under section 2 (f) and 12(B) of the UGC Act, 1956)
Grade A (3.14) NAAC Accredited



Overall report of the Activity (pdf)	As given below

Dr. P. H. Zope

Convener IIC





Report on Engineering Excellence: Insights into Quality Management at JCB India

Introduction

A seminar on the role of a **Quality Engineer at JCB India** was conducted on **10th March 2025** at the **AC Hall, Mechanical Department** as part of the **MESA (Mechanical Engineering Students Association)** activity. The session was guided by **Mr. Lucky Singh**, a distinguished **Quality Engineer at JCB India** and an **Alumni of the 2024 batch**. The event was organized under the guidance of **Er. Navneet Patil**, the **Faculty Advisor** of MESA.

The seminar aimed to provide students with valuable insights into the role of a Quality Engineer, the challenges faced in the industry, and the skills required to succeed in the field.

Objective

The primary objectives of the seminar were:

- To understand the role and responsibilities of a Quality Engineer at JCB India.
 - To explore the challenges and opportunities in quality management within the manufacturing sector.
 - To guide students on the skills and competencies required for a successful career as a Quality Engineer.
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Speaker Profile

Mr. Lucky Singh

- **Quality Engineer, JCB India**
 - **Alumni of the 2024 Batch**
 - Specialized in quality control, process improvement, and supplier quality management.
 - Experience in implementing Six Sigma, Lean Manufacturing, and ISO standards.
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Key Highlights of the Session

❑ **Role and Responsibilities of a Quality Engineer**

Mr. Lucky Singh began by explaining the key responsibilities of a Quality Engineer at JCB India, including:

- Developing and maintaining quality control systems.
- Conducting inspections and quality tests at various stages of production.
- Identifying defects and performing root cause analysis using tools like **5 Whys** and **Fishbone Diagrams**.
- Collaborating with suppliers to ensure consistent material quality.
- Implementing corrective and preventive actions (CAPA) to eliminate quality issues.

☐ **Skills and Competencies Required**

Mr. Singh highlighted the key skills required to excel as a Quality Engineer:

- ☐ **Technical Skills** – Understanding of manufacturing processes and industry standards.
- ☐ **Problem-Solving Skills** – Ability to diagnose and resolve quality issues.
- ☐ **Analytical Skills** – Proficiency in data analysis and interpretation.
- ☐ **Software Proficiency** – Knowledge of quality management tools like **SAP**, **Minitab**, and **AutoCAD**.
- ☐ **Communication and Leadership** – Effective communication with cross-functional teams and suppliers.

☐ **Challenges Faced in the Industry**

He discussed the real-world challenges faced by Quality Engineers at JCB India:

- Maintaining consistent quality in large-scale production.
- Managing supplier quality and resolving material defects.
- Ensuring cost-effective production without compromising quality.
- Adapting to changing customer expectations and industry regulations.

☐ **Importance of Quality in Manufacturing**

Mr. Singh emphasized that maintaining high product quality is crucial for:

- Enhancing customer satisfaction and loyalty.
- Reducing defect rates and minimizing production downtime.
- Improving operational efficiency and profitability.
- Strengthening JCB's competitive position in the market.

☐ **Career Guidance and Future Prospects**

Mr. Singh provided valuable career advice, including:

- Pursuing certifications in **Six Sigma** and **Lean Manufacturing**.
- Gaining hands-on experience in quality control and process improvement.
- Developing strong analytical and leadership skills.
- Staying updated with the latest industry trends and standards.

Interactive Session

The seminar concluded with an engaging Q&A session where students asked questions about:

- Career growth opportunities for Quality Engineers.
- Balancing cost and quality in manufacturing.
- Strategies for effective supplier management.
- The role of automation and AI in quality control.

Mr. Singh provided detailed answers and practical insights, encouraging students to focus on continuous learning and industry exposure.

Outcome of the Seminar

The session was highly informative and beneficial for students. Key takeaways included:

- ✓ ☐ Clear understanding of the role and responsibilities of a Quality Engineer.
 - ✓ ☐ Insights into real-world challenges in quality management.
 - ✓ ☐ Guidance on the skills and certifications required for career success.
 - ✓ ☐ Practical advice on handling quality issues and process improvements.
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Conclusion

The seminar on the role of a **Quality Engineer at JCB India** by **Mr. Lucky Singh** provided valuable industry insights and career guidance. The session motivated students to explore career opportunities in the field of quality engineering and equipped them with the knowledge and skills needed to succeed in the manufacturing industry.

The event was well-organized and successfully coordinated under the guidance of **Er. Navneet Patil**, the **Faculty Advisor of MESA**. The participation and enthusiasm of students made the session a great success.