



DIRECTORATE OF INDUSTRIAL LIAISON

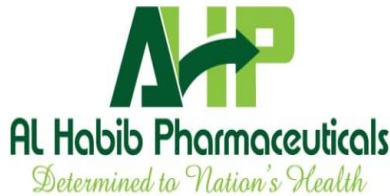
NED University of Engineering & Technology

University Road, Karachi-75270 Pakistan

Tel: (+92-21) 99261261-8, Ext: 2274, 2218, Email: dil@neduet.edu.pk



'SAY NO TO CORRUPTION'



13-07-2026

Job Description: Industrial Engineer

Industry: Furniture Manufacturing **Department:** Production / Operations **Reports To:** Plant Manager / Operations Manager **Location:** 81B SMCHS **Employment Type:** Full-Time

Job Purpose

The Industrial Engineer will be responsible for improving manufacturing efficiency, optimizing production processes, and reducing waste across the furniture production line. This role focuses on process design, workflow analysis, capacity planning, and continuous improvement initiatives to enhance productivity, quality, and cost-effectiveness in furniture manufacturing operations (wood, upholstery, metal, or modular furniture lines).

Key Responsibilities

- Analyze and improve manufacturing processes across cutting, assembly, finishing, upholstery, and packaging lines to maximize efficiency and minimize waste.
- Conduct time and motion studies to establish standard operating procedures (SOPs) and production time standards.
- Design and optimize plant layout, workstations, and material flow to reduce cycle time and improve throughput.
- Perform capacity planning and production line balancing to meet demand forecasts.
- Monitor key performance indicators (KPIs) such as OEE (Overall Equipment Effectiveness), production yield, scrap rate, and labor efficiency.
- Collaborate with production, quality, and supply chain teams to resolve bottlenecks and process inefficiencies.
- Support new product introduction (NPI) by developing process routings, work instructions, and BOM (Bill of Materials) validation.
- Conduct root cause analysis (RCA) for production issues and implement corrective/preventive actions.
- Recommend and evaluate automation or tooling upgrades to improve productivity.
- Prepare cost analysis reports for process improvements and capital investment proposals.
- Ensure compliance with safety, quality, and environmental standards on the shop floor.
- Train and guide production supervisors and operators on process improvements and best practices.

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Qualifications & Requirements

Education:

- Bachelor's degree in Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, or related field.

Experience:

- 2-5 years of experience in industrial/process engineering, preferably in furniture, wood products, or related manufacturing industries.
- Experience with wood-based, upholstery, or modular furniture production is a strong plus.

Skills & Competencies:

- Strong knowledge of Lean Manufacturing, Six Sigma, 5S, and Kaizen methodologies.
- Proficiency in time study, work sampling, and line balancing techniques.
- Familiarity with CAD/CAM software (AutoCAD, SolidWorks) for layout and process design.
- Working knowledge of ERP/MRP systems (SAP, Oracle, or similar).
- Strong analytical and problem-solving skills with a data-driven approach.
- Excellent communication and cross-functional collaboration skills.
- Ability to read technical drawings and furniture specifications (wood joinery, upholstery techniques, hardware assembly).
- Proficiency in MS Excel, Minitab, or other statistical analysis tools.

Preferred Certifications:

- Six Sigma Green Belt / Black Belt
- Lean Manufacturing Certification

Key Performance Indicators (KPIs)

- Overall Equipment Effectiveness (OEE)
- Production cycle time reduction
- Scrap/rework rate reduction
- Cost savings from process improvement projects
- On-time delivery performance
- Labor productivity ratio

Interested candidates who meet the above criteria are requested to share their updated CVs at Hr@ahp.com.pk with the subject line **"Industrial Engineer and or Mechanical Engineer."**



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