

# Job Title: Production Engineer

**Company:** Trigen Decarbonisation

**Department:** Operations / Manufacturing

**Location:** Hyderabad

**Employment Type:** Full-Time

## Position Summary

The Production Engineer is responsible for planning, coordinating, and optimizing manufacturing operations to ensure safe, efficient, and high-quality production. The role focuses on improving productivity, reducing waste, maintaining equipment performance, and supporting the manufacture of innovative decarbonization products while adhering to quality, environmental, and safety standards.

## Key Responsibilities

- Plan, monitor, and optimize daily production activities to achieve production targets.
- Develop and implement efficient manufacturing processes for new and existing products.
- Analyze production data to identify bottlenecks and implement continuous improvement initiatives.
- Support production scheduling to ensure on-time delivery while maximizing resource utilization.
- Collaborate with design, R&D, procurement, quality, and maintenance teams to ensure smooth production operations.
- Lead process optimization projects using Lean Manufacturing, Six Sigma, and Kaizen methodologies.
- Prepare and maintain Standard Operating Procedures (SOPs), work instructions, and process documentation.
- Monitor Overall Equipment Effectiveness (OEE) and implement measures to improve equipment availability and productivity.
- Conduct root cause analysis for production issues and implement corrective and preventive actions (CAPA).
- Ensure compliance with ISO quality standards, environmental regulations, and workplace safety requirements.
- Support new product introduction (NPI) activities, including process validation and production readiness.
- Drive initiatives to reduce manufacturing costs, material waste, energy consumption, and carbon emissions.
- Coordinate with suppliers and the procurement team to ensure material availability and production continuity.
- Train production personnel on manufacturing processes, safety procedures, and quality requirements.
- Prepare production reports, KPI dashboards, and performance metrics for management review.

## Required Qualifications

- Bachelor's degree in Mechanical Engineering, Production Engineering, Industrial Engineering, Manufacturing Engineering, or a related discipline.
- 3–7 years of experience in manufacturing or production engineering.
- Experience in clean energy, industrial equipment, process manufacturing, automotive, renewable energy, hydrogen, or sustainability-focused industries is preferred.
- Strong understanding of production planning, process optimization, and manufacturing systems.
- Knowledge of Lean Manufacturing, Six Sigma, 5S, TPM, and Kaizen principles.
- Experience with ERP/MRP systems and production planning software.
- Proficiency in Microsoft Office and engineering software such as AutoCAD, SolidWorks, or equivalent.
- Strong analytical, troubleshooting, and problem-solving skills.
- Excellent communication and cross-functional collaboration skills.

## Preferred Skills

- Knowledge of decarbonization technologies, renewable energy systems, hydrogen, carbon capture, or energy-efficient manufacturing.
- Familiarity with ISO 9001, ISO 14001, and ISO 45001 management systems.
- Experience with production data analytics and KPI reporting.
- Understanding of Industry 4.0, digital manufacturing, and automation technologies.
- Project management experience and the ability to manage multiple priorities.