

Position title	TPM Engineer (Technical Program Manager)
Reporting to	PE Manager
Department/Section	PE

Purpose of the position

Leading a team of engineers and technicians to optimize production process, improve product quality, and ensure efficient manufacturing operations. This role involves collaborating with cross-functional teams to drive continuous improvement, resolve technical challenges, and align manufacturing strategies with organizational goals.

Duties and Responsibilities

1. Project Planning & Execution
 - Define requirements, technical specs, deliverables, and timelines via cross-functional collaboration.
 - Allocate resources (human/material/equipment) to meet budget and deadlines.
 - Build schedules using Gantt charts/Critical Path Method (CPM) and track milestones.
 - Identify risks (technical/production/supply chain) and develop mitigation strategies.
2. Technical Integration
 - Cross-functional Collaboration:
 - Translate technical specs into production workflows; resolve production issues (process parameters, equipment calibration).
3. Process Optimization
 - Analyze production bottlenecks and propose improvements (e.g., automation, process reengineering).
 - Implement Lean/Six Sigma to reduce defects and costs.
 - Maintain technical documents (specs, SOPs, ECNs) and share knowledge via training.
4. Resource & Cost Control
 - Monitor project costs (IDL/ DL labor/materials/equipment) to avoid overspending.
 - Provide data-driven insights (ROI, cost-benefit analysis) for technical decisions.
5. Quality Assurance & Problem Solving
 - Lead root-cause analysis (e.g., 8D method) for defects and drive corrective actions.
 - Address customer feedback/ pass down and coordinate recalls or improvements as needed.
6. Project Closure
 - Coordinate final lesson learn, client acceptance, and handover.
 - Compile post-project reviews to document successes/failures and suggest process improvements, summary wish list.
7. Innovation & Partnerships
 - Evaluate new technologies (equipment/materials/processes) for feasibility and impact.
 - Collaborate with F1 partners (TPM/ Ops/ NPO/ AME) for R&D and innovation.
8. PRQ/CR schedule, report and execution in MP phase

Education and work experience

Educational Requirements

1. Bachelor's Degree
 - Engineering disciplines (priority): Electronic Engineering, Mechanical Engineering, Industrial Engineering, Automation, Materials Science, Computer Science, etc.
 - Management disciplines: Industrial Management, Supply Chain/Project Management (requires technical expertise or relevant experience).

Experience Requirements

1. Industry Experience
 - Electronics Manufacturing: At least 3–5 years of experience in electronics manufacturing (e.g., production line upgrades, technology transfers).
 - Process Knowledge: Familiarity with critical stages of manufacturing: assembly, testing, packaging.
 - Cross-functional Collaboration: Experience working with R&D, production, quality, and supply chain teams to execute technical projects.
2. Project Management Experience
 - Project Leadership: Led or actively participated in 2–3+ technical projects with clear outcomes (e.g., efficiency improvements, cost reduction, process standardization).
 - Tools & Methodologies: Proficiency with project management tools (e.g., MS Project, Jira, Trello, Asana) and methodologies (PMBOK, Agile).
 - Risk Management: Demonstrated ability to identify technical, supply chain, or production risks and develop mitigation plans.
3. Technical Experience
 - Manufacturing Engineering: Knowledge of manufacturing equipment (e.g., Automated Test Equipment, AOI, robotics), production line layout, and parameter optimization (e.g., OEE improvement).
 - Data Analysis: Experience using tools (Excel, Python, SQL, BI tools) to analyze manufacturing data and support decision-making.

Supervision

- This position has several direct reports from manufacturing engineering crew members.

Skills

- Strong technical and analytical mindset.
- Cross-functional communication and collaboration.
- Results-driven with a focus on process optimization and problem-solving.
- Language Fluent in English.

Working conditions

- Office-based role, fast-paced work environment
- This position must be able to respond to after-hour emergencies and be available to work non-core hours or overtime to complete various projects without interruption to operations.