

## JOB DESCRIPTION

<b>Job Title</b>	Engineer
<b>Reports To</b>	Principal Manufacturing Engineer
<b>Function</b>	Engineering
<b>Version/Date</b>	16.02.2022
<b>Job Purpose</b>	
<p>Responsible for the translation of customer requirements and specifications into ERP routings and manufacturing plans, fulfilling customer quality and technical specifications in the most cost-effective manner, and in accordance with REL policies and procedures.</p> <p>Develops, evaluates, and improves manufacturing methods, utilising knowledge of product design, materials and parts, fabrication and machining processes, tooling and production equipment capabilities, assembly methods, and quality control standards.</p>	
<b>Day to Day operations</b>	
<p>Ensuring correct interpretation of customer requirements and specifications into efficient manufacture sequences.</p>	
<b>Principal responsibilities</b>	
<ul style="list-style-type: none"> <li>• Ensure that all customer specifications and quality requirements are thoroughly reviewed and understood and incorporated in all routings and shop floor paperwork</li> <li>• Produce process drawings (including DXF's) and verification of existing process drawing ensuring conformance of the component</li> <li>• Define and produce drawings for any relevant Jig &amp; Tooling requirements to ensure efficient manufacture</li> <li>• Effectively manage process change to minimise quality and scrap risk, by ensuring changes are communicated and introduced in a controlled and progressive way and quality and specification attainment is captured and demonstrated at appropriate stages of the manufacturing process</li> <li>• Produce detailed routings within ERP system including material requirements and shop floor documentation detailing manufacturing method and build sequences, showing targets times for each operation, aligned with contract budgets</li> <li>• Work with procurement to determine product specifications for the correct purchase of equipment, materials, or parts, and evaluate products according to specifications and quality standards</li> <li>• Identify opportunities for improvement, waste elimination and cost reduction including SMED, 5S, VSM, Cellular manufacture, flow, and other lean manufacturing practices including six sigma DMAIC processes</li> <li>• Perform PFMEA and Risk assessments</li> </ul>	

- During the process of product review and manufacture manage all subsequent technical queries by liaising with external customers and/or REL personnel
- Prior and during manufacture consult with operational REL personnel concerning product requirements and specifications to ensure manufacturing method and build sequences are understood, agreed and followed
- Issue and control drawings, build sequences to REL production personnel
- Support the investigation and root cause analysis of external customer and internal NCRs as required
- Ensure corrective & preventive actions are incorporated into existing/ future routings and build sequences
- Improve manufacturing efficiency by analysing and planning workflow, space requirements and equipment layout. Support the business by identifying high return projects and preparing and presenting ROI justifications
- Support and project manage the introduction of new manufacturing processes and equipment, ensuring project schedules and quality gates are met to ensure the project is delivered in time and to schedule
- Any other duties as reasonably requested by your Line Manager or a member of the Senior Management team

#### **Key interfaces**

- Commercial and Production functions
- Senior Manufacturing Engineer and Engineering team
- Quality and Production Support
- Customers (Technical queries)

#### **Qualifications, Skills and Experience**

##### **Desirable:**

- Degree in Mechanical Engineering from an accredited institution or equivalent
- Previous experience of working within a manufacturing engineering environment
- Ability to interpret complex mechanical and technical drawings
- Understand profiling, fabrication, welding, painting and machine operations
- Excellent customer focus
- Budgetary awareness
- Ability to multi-task and prioritise effectively

- High level of technical knowledge and the ability to apply this knowledge to provide practical solutions
- Proficient using CAD drawing packages
- Working knowledge of lean manufacturing practices

**Disposition (Required critical behaviours):**

- Calm under pressure
- Strong team player
- Highly detail orientated
- Able to demonstrate results delivery
- Partnership building (internal and external users)
- Strong influencing skills
- Excellent information sharing ability at all levels
- Improvement drive
- Embracing and Driving Change
- Effective verbal and written communication skills
- Planning and organisational skills
- The ability to interact with people at all levels within/external to the Company
- The ability to self-prioritise workload