



# Job Description

**Silfab Solar Inc. – Mississauga, Ontario**

**Job Title:**            **Quality Engineer**

**Department:**       **Quality**

**Reports to:**         **Product & Operations Quality Manager**

*To make a difference in the world by reducing carbon emissions and improving access to clean energy with every module we make.*

Silfab Solar is the largest automated Solar manufacturing facility in North America. We are an international leader in the development, manufacturing, distribution and innovation of ultra-high efficiency PV modules, operating with Just-In-Time manufacturing and leveraging over 35 years of Solar experience. Our state of the art facilities located in Toronto, Canada and in Bellingham, Washington have helped pioneer smart module technology and innovative process to produce superior reliability and performance specifically designed for North American market.

At Silfab Solar, our team members have been actively shaping sustainable solutions since its inception and we are looking to grow our team of 200+ experts who are dedicated to our mission and to evolving technology for the next generation of Solar products.

## **Primary Responsibilities**

- + Develop quality controls and Work Instructions in cooperation with the management team.
- + Monitor the variations in scraps products and raw materials (out of spec) that are rejected at the various steps of production flow. Make statistical evaluations and define corrective actions. Lead root cause/corrective action activities.
- + Suggest improvements of the quality controls and Work Instructions in order to reduce scraps and improve the performance of the finished product.
- + Reduce the production of scraps, and improve the capacity using in-depth analysis and improvement of the process.
- + Support and train continually the Quality Technicians, Lead Hands and Operators on WI's, Quality and Process issues.
- + Create statistical analysis and reports on the quality of raw materials and finished product.
- + Monitor performance and accordingly suggest improvements to the Leadership Team on the production recipes for the various steps of the process. Implement approved improvements.
- + Prepare PPAP submissions and approvals (Customers and Suppliers).
- + Perform root-cause analysis and apply corrective/preventive actions.
- + Champion Control Plans, PFMEAs, and related inspection & testing activities.
- + Maintain ongoing defect prevention activities through FMEA reviews.
- + Involvement in design reviews internally and externally.
- + Perform process, system, and dimensional audits.
- + Perform dimensional layouts and MSA studies for new and existing programs.
- + Champion new product launches for all quality related documentations.
- + Prepare shop-floor work instructions.



- + Implement SPC (as required). Liaise with suppliers and customers when required, going to customer sites as needed.
- + In collaboration with the Leadership Team produce and maintain all documentation required for the Quality manual in respecting the ISO standards.
- + Support the “Product & Quality Manager” as required.
- + Respect and promote Ethic and Operational Values
- + Be involved as a driving force in continual improvement and corrective/preventative actions.
- + Management of documents related to ISO certification, procedures, standards and customer change requests, ECN, PCN and SWIs.
- + Ensure and continuously improve the quality standards of the finished product.
- + Contribute to reducing downtime in production through preventive and corrective actions leading to poke yokes.
- + Contribute to reducing defects through preventive and corrective actions.
- + Constantly enhance the motivation and team-spirit of all operational staff.
- + Apply statistical techniques to process control, experiments or CI projects.
- + Analyze statistical data to establish standard and improvement targets

### **Education and Experience**

- + Advanced diploma or bachelor's degree in electrical engineering, mechanical, mechatronics, manufacturing engineering, physics or similar field is required.
- + Minimum 3+ years' experience as Quality Engineer in a high-volume, high-tech manufacturing environment is required.
- + Module manufacturing experience is preferred, however not required.

### **Technical Skills**

- + Demonstrated excellent understanding of problem solving techniques including 8D, 5Why's, and Fishbone
- + proficient with computers, Microsoft Office, power pack, advanced excel, mini tab and Statistical tools
- + Certified Quality Engineer accreditation is highly preferred

### **Core Competencies**

- + Ability to work cross-functionally.
- + Proven ability to work with little direction, using initiative to identify and solve quality issues.
- + Proven leadership skills, working within a team environment, leading problem solving teams and acting as a change agent.
- + Effective interpersonal and communication skills.
- + Ability to work independently and as a part of team.
- + Capability to meets goals set out by the Leadership Team.
- + Ability to work independently and with little direction.
- + Excellent Troubleshooting and problem solving skills

### **Compensation**

Competitive market based salary package with full benefits will be offered to successful candidate based on experience.