**SOMERS FORGE LIMITED**

**JOB SPECIFICATION**

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| **JOB TITLE:** Machine Shop Manufacturing Engineer  **REPORTING TO:** Machine Shop Manager |

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| **DEPARTMENT:** Machine Shop |
| **SUPERVISORY RESPONSIBILITY:** Technical assistance to machine shop employees |
| **JOB PURPOSE:**   * To oversee the design and implementation of the machine shop’s production processes. To be responsible for maintaining and improving the efficiency and quality of the production processes to produce a better product, at a lower cost and improve the profitability of the company whilst maintaining / improving safety. |
| **MAIN DUTIES AND RESPONSIBILITIES:**   * Reviewing production plan & minimising set up time on next jobs to be processed   - Route card instructions / drawings are legible & understood.  - Clamps, blocks, fixtures, angle plates, steadies are by the machine  - Tools, cutting tips, drills, taps etc. (full set available for operator)  - Appropriate measuring equipment is available   * Analysing and reporting on production processes, methods, set up times, cycle times,   + Map current process (workflow & work study on production runners.)   + Analyse / evaluate actual process / times against standards   + Establishing an effective work sequence / workflow strategy   + Implement best practice to improve efficiency (change standard) * Set up structured program vaults on CNC machines * Evaluating quality control processes and making recommendations for improvements * Ensuring that the company’s manufacturing processes comply with relevant policies/procedures and Customer requirements /regulations * Audit / verify to ensure employees are following route card instructions & procedures while operating the equipment * Complete * Reviewing and calculating the costs of the different tools and equipment in the production process and predicting the overheads in future production requirements * Assist in minimising downtime of the equipment by: -   + Coordinating maintenance and repair services around production schedules / production windows.   + Ensuring Operator TPM checks / actions are done   + If trained, cover employee absence * Remain up to date on the most recent developments & advancements in machining processes & technology. * Assist in defining essential safety protocols & identify, document & report unsafe situations / routines.   **EXPERIENCE/ SKILLS PREFERRED:**   |  | | --- | | 1. **Experience** | | * Minimum of 3 years working on a CNC machining centre * The ability to work well under pressure * Good leadership and communication skills * The ability to work with diverse teams * Strong problem-solving skills * Excellent information technology skills in specific software packages, including computer-aided modelling and CNC language programming * In-depth knowledge of manufacturing production and processes * Lifting & slinging experience. – components can range up to 10 metres in length & weights up to 50 ton. | | 1. **Qualifications** | | * Apprenticeship in manufacturing or engineering discipline | | Preferred but not essential: - | | * HNC in manufacturing or engineering discipline * University degree in systems engineering, mechanical engineering, manufacturing engineering or industrial engineering. | | 1. **Personal Skills and Abilities** | |  | | * Good interpersonal skills, particularly team building and leadership | | * Excellent verbal and written communication skills | | * Ability to compose clear and concise documentation | | * Ability to achieve deadlines consistently | | * Excellent time management and organisational skills | | * Ability to work under own initiative | | * High self-motivation and determination to succeed | | * Good literacy and numeracy | | 1. **Other** | | * Willingness to work shifts and additional hours to complete your duties | | * Flexible and responsive to the demands of the role   **5.Measurables**   * Zero machine downtime due to lack of instructions / information tools, tip inserts, ancillary equipment. * Complete gap analysis on actual times compared to Standard times on Howdens & Siemens parts by completing process maps & time study for family of parts. * Implemented best practice rules on speeds / feeds / depth of cut for Howdens & Siemens parts. * 25% reduction in number of NCR’s for the machine shop compared to 2024.   + 1st stage of 8D to be completed & submitted within 48hrs   + No NCR’s to be open longer than 30 days unless formally approved. * Zero non-conformances from third party Quality audits * Operator TPM & coolant checks documented for each machine & operators completing (including taking remedial action) | |