**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.
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| **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:**

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| 1. **Experience**
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| * 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.
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| 1. **Qualifications**
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| * Apprenticeship in manufacturing or engineering discipline
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| Preferred but not essential: - |
| * HNC in manufacturing or engineering discipline
* University degree in systems engineering, mechanical engineering, manufacturing engineering or industrial engineering.
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| 1. **Personal Skills and Abilities**
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| * Good interpersonal skills, particularly team building and leadership
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| * Excellent verbal and written communication skills
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| * Ability to compose clear and concise documentation
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| * Ability to achieve deadlines consistently
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| * Excellent time management and organisational skills
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| * Ability to work under own initiative
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| * High self-motivation and determination to succeed
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| * Good literacy and numeracy
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| 1. **Other**
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| * Willingness to work shifts and additional hours to complete your duties
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| * 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)
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