



Toolmaker

Description:

The toolmaker position collaborates with product and tooling design engineers and manufacturing tooling users to create tooling that yields production parts meeting design requirements. Toolmakers use engineering CAD models, drawings, specifications, etc., to facilitate the construction of new tooling, and for the repair, enhancement, or duplication of existing tooling. Created tooling must yield correct parts and support the safe (ergonomics considered) and efficient (easily used and repetitive) volume manufacture of production quantities.

Toolmakers may also support Production operations through fabricating and/or machining of a wide array of tables, carts, tools, holding devices, etc. to quickly and efficiently enable or improve safe and efficient operations.

Skills, characteristics, experience, and training desired:

- Excellent interpersonal skills to interface and collaborate effectively with engineering, other tooling resources, and manufacturing team members
- Proficient in understanding design inputs (part models, drawings, requirements)
- Capable of providing tooling design input as needed and creating tooling concepts and detailed tooling that meet engineering and manufacturing requirements
- Able to create the actual tooling required through fabricating, manual machining, welding, etc. as necessary to achieve the desired tooling
 - Competent/expert-level manual machinist on both lathe and mill
 - Ability to fixture effectively (using sine bars, indicators, soft jaws, end stops...)
 - Proficient in welding
- Proficient in math and measurement to both create and validate finished tooling
 - Thorough understanding of geometry and the ability to do math to 5 decimal points to prevent rounding errors. Also, the ability to use micrometers, calipers, bore gauges, height gauges, gauge blocks, gauge pins, etc.
- Detailed and organized in housekeeping and care of tools and equipment
- Supportive and passionate about internal customer service
- Reliable

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