

Machinist: Machinist III

Sets up and operates a variety of machine tools such as lathes, milling machines, shapers, planers and precision grinders to make metal parts, mechanisms, tools or machines to exacting tolerances and dimensions. Interprets blueprints, sketches and engineering specifications; determines sequence of operations, number of cuts required and method of setup. Uses a variety of machinist's hand tools and precision measuring instruments. Makes standard shop computations relating to dimensions of work, tooling, feeds and speeds. Measures, marks and scribes dimensions and reference points to lay out stock for machining. Fits and assembles precision parts into mechanical equipment and determines material, parts and equipment required. May modify numerically controlled programs on numerically controlled (NC) machines. May monitor and verify quality in accordance with statistical process or other control procedures. Typically requires completion of a formal apprenticeship or equivalent training and experience.

Knowledge

Considerable knowledge of the job. Complete acquaintance with, and understanding of, the general and detailed aspects of the job and their practical applications to problems and situations ordinarily encountered.

Supervision Received

Limited supervision. No instructions needed on routine work and general instructions given on new lines of work or special assignments.

Consequence of Errors

Errors may be difficult to detect and would normally result in loss of customer business, material or equipment to resolve.

Contacts

Contacts are frequent with individuals representing other departments and/or representing outside organizations. Contacts involve obtaining or providing information or data on matters of moderate importance to the function of the department or which may be of sensitive nature.

Work Products (Examples may include but are not limited to)

Use of ERP/MRP software. Work from written work orders, verbal instructions or blueprints, keeping all signoffs and inspection buyoffs current. Maintain a clean work area daily. Use of Forklifts and/or Pallet Jacks to move materials, tooling and load the machining centers. Set up fixtures on machine and dial in tooling balls. Must be able to select, set and load the correct cutting tools into the tool magazine. Dry run programs prior to production, look for errors and work with Machine Shop Lead to fix errors. Edits programs, regulate machine speeds, feeds, coolant, depth, etc. Runs production jobs on all machining centers. Must have advanced knowledge of Fanuc and Siemens controllers. Troubleshoots any problems that may arise with machining operations. Use Surf Cam software to draw and create advanced level tool paths. Use of drill presses, lathes, grinders, sanders, etc.

Minimum Education and Experience

High school diploma or GED equivalent. Must be proficient using a PC and related software. This position may require that the person can apply and pass the required criteria to obtain a Secret level clearance. Must be able to use and read scales, calipers, micrometers, etc.