Mechanical Engineering Technician Job Description

Duties and Responsibilities:

- Assemble and install mechanical systems for industrial, electromedical, and manufacturing purposes
- Implement cost-effective changes in equipment design to improve reliability and safety
- Assist mechanical engineers in developing, building and maintaining machines and tools
- Read and interpret engineering designs, plans, and diagrams for piping, transmission, and HVAC systems
- Prepare cost and material estimates for a project
- Test and analyze machines, tools, and components to determine their performance, strength and response to stress
- Design manufacturing implements such as jigs, dies, and moulds
- Carry out inspections to identify faults and initiate repair of mechanical systems or products
- Monitor mechanical processes to ensure conformance to standard project procedures
- Use CAD software and technology to prepare drawing plans and design for an engineering project
- Assemble components or machine parts to form integral or complete product unit
- Provide technical solutions to mechanical problems found in a variety of industries
- Develop and design prototypes of equipment
- Ensure compliance with health/safety procedures and regulations
- Implement quality control systems useful in evaluating and testing mechanical processes/product for consistency.

Mechanical Engineering Technician Requirements – Skills, Knowledge, and Abilities

- Education and Training: To become a mechanical engineering technician, you require an Associate's degree in mechanical engineering technology or in a related field. Relevant certifications from engineering or applied science institutions may also be a plus for the position. About 2 years of supervised practice is required prior to certification
- Eye for details: Mechanical engineering techs are given to precise measurements, specifications, and configuration
- Technical Skill: They are able to operate tools and equipment such as lathes and drills during work operations
- Math Skill: They are proficient in using math calculations to design or repair mechanical systems.