

Composite Technician: Sr. Composite Tech / Sr. Lead Composite Tech

Bonds a variety of dissimilar materials (composite, metal, or laminate) assemblies, parts, skins, components, equipment or structures into semi-finished or finished products. Lays out articles, cuts parts or materials to size. Applies liquid or solid bonding agents. Operates autoclave, hydraulic presses and ovens to complete bonding cycle. Controls conditions of heat, pressure, and timing by setting and operating various controls according to the specifications for the materials and the bonding agent being used. Sands, burrs and smooths over areas, apply sealing resins to cut or exposed edges. Monitors and verifies quality of finished product. Completes repairs on composite, metal or laminate bonded products using inspection and rework instructions. Verifies quality of finished product.

Knowledge

Extensive knowledge in specialized functions. A wide and comprehensive acquaintance with, and understanding of, both general and specific aspects of the job and their practical application to complex problems and situations ordinarily encountered.

Supervision Received

Minimal supervision. Work may be done without established procedures.

Consequences of Errors

Errors are very difficult to detect and would normally require significant expenditures to resolve.

Contacts

Contacts are frequent with individuals representing outside organizations, and/or individuals of significant importance within the company. Contacts involve planning and preparation of the communications, require skill, tact, persuasion and/or negotiation to accomplish the objectives of the communication.

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

May set up, program and operate winding machines, assemble parts to shop orders and specs, or hand lay-up projects from prints and method sheets. Verifies accuracy of work using precision measuring instruments (calipers, torque wrenches, etc.). Schedules and gives daily direction to manufacturing teams according to quality considerations and delivery requirements. Solves production related problems as necessary and notifies production supervisor/manager of any problems not resolved. Provides formal and O.J.T. training to production workers as required. Tracks inventory of stock and notifies supervisor of shortages. Orders and maintains shop supplies and inventories from stockroom in order to minimize downtime and production interruptions. Ensures equipment is operational and calibrated through P.M. programs. Ensures safety and housekeeping standards are adhered to by group which includes provision of safety materials; i.e. safety glasses, etc. Ensures group adheres to established quality standards through the use of S.P.C. data correction and interpretation analysis. Perform other duties as required and requested by management.

Minimum Education and Experience

High School Education or equivalent. Knowledgeable in the use of measuring tools including, dial calipers, pie tapes and height gauges. Understanding of SPC principles and charting. Working knowledge of certification of resins and adhesives. At least 5 years experience in composite assembly, lay-up or winding. Working knowledge and cross training in two or more of the following production disciplines: Hand lay-up, filament winding, and laminating.