

Composite Technician

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.

Level 1		Level 2		Level 3		Level 4	
Composite Tech I		Composite Tech II		Composite Tech III		Sr. Composite Tech / Sr. Lead Composite Tech	
Knowledge	Little or no knowledge of the job. Moderate understanding of general job aspects and some understanding of the detailed aspects of the job.	Full knowledge of the job. Substantial acquaintance with and understanding of general aspects of the job with a broad understanding of the detailed aspects of the job.		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.		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	Close supervision involving detailed instructions and constant checking on work performance.	General supervision and instructions given for routine work and detailed instructions given for new activities or special assignments.		Limited supervision. No instructions needed on routine work, and general instructions given on new lines of work or special assignments.		Minimal supervision. Work may be done without established procedures.	
Consequences of Errors	Errors can be easily and quickly detected within the immediate work unit and would result only in minor disruption or expense to correct.	Errors may be detected and corrected but may cause moderate loss of time or customer/user dissatisfaction.		Errors may be difficult to detect and would normally result in loss of customer business, material, or equipment to resolve.		Errors are very difficult to detect and would normally require significant expenditures to resolve.	
Contacts	Contacts are primarily within immediate work unit. Contacts involve obtaining or providing information requiring little explanation or interpretation.	Contacts are typically with individuals within own department and occasionally with contacts outside own organization. Contacts involve obtaining or providing information or data requiring some explanation or interpretation.		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.		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.	

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Work Products (Examples may include but are not limited to)	Use of Global Shop System software. Work from written work orders, verbal instructions or blue prints, keeping all signoffs and inspection buyoffs current. Maintain a clean work area per daily, monthly and yearly cleanup schedules. Proper use of release agents and tool preparation.	Use of Global Shop System software. Will assist with training new employees and lower level technicians. Work from written work orders, verbal instructions or blue prints, keeping all signoffs and inspection buyoffs current. Maintain a clean work area per daily, monthly and yearly cleanup schedules. Proper use of release agents and tool preparation. Be able to identify different process materials, pre-pregs and adhesives. Maintain material logs on time sensitive materials. Cutting and kitting materials by hand and/or automated cutting table.	Use of Deltek / Costpoint software, including balancing of daily time sheets. Will assist with training new employees and lower level technicians. Work from written work orders, verbal instructions or blue prints, keeping all signoffs and inspection buyoffs current. Maintain a clean work area per daily, monthly and yearly cleanup schedules. Proper use of release agents and tool preparation. Be able to identify different process materials, pre-pregs and adhesives.	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	Be able to identify different process materials, prepregs and adhesives. Assist with cutting and kitting materials. Complete lay-ups using measuring instruments per shop orders, blue prints or laser ply projector. Vacuum bag basic shapes and sizes. Assist in loading autoclaves and/or ovens with the use of forklifts, cranes or handling carts. De-molding, labeling and handling of cured parts.	Capable of locating and loading files. Setting up tools and completing lay-ups with the laser ply projection system. Complete lay-ups using measuring instruments per shop orders or blue prints. Vacuum bag detailed shapes and sizes. Trouble shoot causes of vacuum loss to maintain bag integrity. Loading autoclaves and/or ovens with the use of forklifts, cranes or handling carts. Properly connect all vacuum source\transducer hoses, and thermocouples in the autoclave or oven. Basic operation of autoclaves and ovens using different software systems and controls. De-molding, labeling and handling of cured parts.	Maintain material logs on time sensitive materials. Cutting and kitting materials by hand and/or automated cutting table. Capable of locating and loading files. Setting up tools and completing lay-ups with the laser ply projection system. Complete lay-ups using measuring instruments per shop orders or blue prints. Vacuum bag detailed shapes and sizes. Trouble shoot causes of vacuum loss to maintain bag integrity. Loading autoclaves and/or ovens with the use of forklifts, cranes or handling carts. Properly connect all vacuum source\transducer hoses, and thermocouples in the autoclave or oven. All aspects of operation on autoclaves and ovens using different software systems and controls. De-molding, labeling and handling of cured parts.	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.