

Composite Technician Winder: Composite Tech Winder III

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 and 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, smooths over areas and applies 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

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.

Consequences 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)

Must be dependable and punctual. Use of ERP/MRP System software. Must be very observant, a quick learner and quality oriented. Will assist with training for new employees and lower level technicians. Work from written work orders, verbal instructions or blueprints, while keeping all signoffs and inspection buyoffs current. Needs to be able to work with computer controlled multi axis winding equipment. Troubleshoot technical issues that relate to the equipment and the winding process. Must be comfortable working in high places while using the proper safety equipment. 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. Capable of locating and loading files. Setting up tools and laying-up with the laser ply projection system. Complete lay-ups using measuring instruments per shop orders or blueprints. Vacuum bag detailed shapes and sizes. Troubleshoot 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. Must work well with customers in a professional manner and be able to convey information about the equipment and the material produced.

Minimum Education and Experience

High school diploma or GED equivalent. Must be proficient using a PC and related software. Prefer two to five years of winding and composites experience. This position may require the person to apply and pass the requirements to obtain a secret level clearance. Must be able to use and read scales, calipers, micrometers, etc.