

Composite Technician: Composite Tech II

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

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.

Supervision Received

General supervision and instructions given for routine work and detailed instructions given for new activities or special assignments.

Consequences of Errors

Errors may be detected and corrected but may cause moderate loss of time or customer/user dissatisfaction.

Contacts

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.

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

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.

Minimum Education and Experience

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.