

Composite Technician Job Description

- Fabricate composite parts and products by laying up composite material layers, curing, bonding, and performing finishing work
- Trim composite materials using hand tools or computer numerical control (CNC) cutting equipment
- Assemble composite components into subassemblies and larger sections by bonding parts and drilling holes for fasteners
- Read and understand technical drawings, documentation, work orders, quality specifications, and process guidelines
- Program CNC machines using computer-aided manufacturing (CAM) software to cut composite fabric and materials
- Check the quality of incoming raw precursor composite materials to ensure specifications compliance
- Maintain production logs and documenting all work for traceability and auditing
- Lay out, measure, cut, and shape composite fiber plies to conform to product engineering designs
- Prepare molds, apply release agents, seal edges, and mount necessary inserts before layup
- Align and drape multiple layers of dry composite material on production panel molds
- Apply adhesive films, pastes, putties and other bonding compounds to join composite
- Install composite interior/exterior aircraft components, wings, tail sections, fuselage assemblies, etc.
- Cure composite parts in ovens and autoclaves according to required heating cycles
- Sand, trim, drill, contour, polish, clean, and finish cured composite using both manual and automated methods

- Inspect, measure, and test composite assemblies at all production stages for defects and conformity
- Repair damaged composite components by patching holes, rebuilding corroded sections, and reworking design features
- Maintain production work area to ensure a clean, safe, and efficient workspace.