

WAGE GRADE CAREER PATH

WG 4352

COMPOSIT/PLASTIC FABRICATOR OR COMPOSIT/PLASTIC WORKER

This occupation covers nonsupervisory jobs involved in the repair, fabrication, modification, removal, and installation of composite and/or plastic items, parts, assemblies, and structures. Composite/plastic fabricating work requires knowledge of the physical properties and working characteristics of plastic, composite, and compound ingredients, with a working knowledge of metals, metal properties, and metal characteristics.

WG02 - Step
WG05

Part 1

Apprentice/Helper/Trainee; Trade/Less than Journeyman

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| | 1 | Complete New Hire Orientation |
| | 2 | Complete Civilian Training Plan requirements for current position |
| | 3 | Complete task qualifications for current position |
| | 4 | Complete task certifications for current position |
| | 5 | Master simple to common work tasks under supervision |
| | 6 | Maintain successful to above average performance ratings |

WG05 -
WG08

Part 2

Trade/Less than Journeyman

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|--|---|---|
| | 1 | Continue required on-the-job and formal classroom training required in Civilian Training Plan |
| | 2 | Complete task qualifications for current position |
| | 3 | Complete task certifications for current position |
| | 4 | Master common to complex work tasks. Grade 7 composite/plastic workers repair, restore, and remove composite or plastic parts and structures with surface damage such as chips, scratches, minor cuts, pits, abrasion, dents, surface ply rips, delamination, disbond, and bubbles. At this level, the presence of the imperfections will not affect the serviceability of the final product. Grade 7 workers repair and restore the aerodynamic smoothness of the part to prevent further damage. They bond composites, plastics, and metals. They set up and operate various standard industrial machines, tools, and equipment, such as sanders, routers, drills, heat blankets, heat lamps, pre-constructed jigs, molds, and form blocks. |
| | 5 | Maintain successful to above average performance ratings |

Part 3

Journeyman

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| | 1 | Continue required on-the-job and formal classroom training required in Civilian Training Plan |
| | 2 | Complete task qualifications for current position |
| | 3 | Complete task certifications for current position |
| | 4 | Master common to complex work tasks. At Grade 9, composite/plastic workers repair, fabricate, modify, and install composite and/or plastic items, parts, assemblies, and structures with contours that must be reestablished or must meet rigid mechanical or electrical tests. Composite/plastic workers use standard trade practices, processes, and techniques in accomplishing assignments. Composite work involves fabricating parts or patches for use in repair, modification, or part replacement. These parts include aircraft ribs, spars, or bulkheads. Plastic work involves fabricating partial backup molds to make major repairs of laminated structures, such as microwave radomes, fairings, wing tips, and initial layout and hand lay-up of multi-contoured plastic and fiberglass parts. Plastic work also involves manufacturing simple molds from plastic, plaster, or rubber tooling compounds for successive casting, molding, and foaming operations when the part or a pattern is available. |
| | 5 | Master common to complex work tasks. At Grade 10, Grade 10 composite/plastic fabricators repair, modify, and fabricate composite or plastic items and assemblies with straight and curved surfaces and a number of interconnecting parts and components. The numerous curves, angles, and shapes cause difficulty in planning and laying out material. Fabricators make patterns or form blocks for the various interconnecting parts of the final items. |
| | 6 | Master common to complex work tasks. At Grade 11, Grade 11 composite/plastic fabricators plan, lay out, modify, and fabricate unconventional, one-of-a-kind items for one-time projects, to support experimental, developmental, or testing activities. They may work in close coordination with scientists and engineers in determining the most feasible materials and means of manufacturing items that typically have numerous compound curves and intersecting compound angles. Assignments may involve manufacturing prototype models of radomes, missiles, wings, ship hulls, or full body casts. Assignments at this level are more difficult to plan and lay out than those at the grade 10 level due to the need to meet more complex and critical configurations and fits and the need to adapt trade practices, methods, and techniques to fit each new situation. |
| | 7 | Provide production support services |
| | 8 | Maintain successful to above average performance ratings |

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