

Aircraft Structural Repair Technician

Program Learning Outcomes

Learning outcomes represent culminating demonstrations of learning and achievement. In addition, learning outcomes are interrelated and cannot be viewed in isolation of one another. As such, they should be viewed as a comprehensive whole. They describe performances that demonstrate that significant integrated learning by graduates of the program has been achieved.

The graduate has reliably demonstrated the ability to

1. Safely use the tools, equipment and identify materials needed to carry out various sheet metal repairs.
2. Demonstrate a working knowledge of the principles of aircraft design by applying theory and shop practice.
3. Identify and order airframe parts with the use of Maintenance and Parts Manuals to complete necessary repairs.
4. Read and follow blueprint, shop drawings and manufacturer's manuals necessary in all manufacturing and overhaul facilities.
5. Organize work safely, economically and efficiently
6. Carry out any repair according to specifications, stated job procedures and the requirements of the Department of Transport Regulations
7. Refer to specific aircraft manuals such as Aircraft Pocket Manual and Hardware Manual to determine safe and acceptable procedures and parts.
8. Demonstrate a sense of responsibility and appreciation of the high cost of the equipment and materials used to train the practical portion of this program.
9. Apply weight and balance formulas.
10. Recognize basic hand tools and demonstrate their use for specific maintenance on floats, fuselage structures and control systems.
11. With the use of manuals quickly locate and pinpoint station locations on fuselage construction and wing structures.
12. Use specialized equipment such as reamers, taps and dies to complete a detailed repair as per manufacturer's specifications.
13. Fabricate sheet metal parts with the use of shop equipment and manuals.
14. Apply Department of Transport regulations to paperwork and authorization licences to release aircraft back to service.
15. Fabricate float and hull repairs using specialized equipment for float repairs.
16. Demonstrate honesty and integrity to match the requirements of the aircraft industry.