

Edwards & Associates, Inc.

Resourcefulness and Innovation

Canadian born Instructor, **Lawrence "Lever" Lee** earned his Airframe and Powerplant Certificate from Moody Aviation, where he also worked after graduation.

Lever's certificates include Airframe & Powerplant, Inspection Authorization, and Private Pilot. Lever has been with Edwards and Associates, Inc. for two years.

George Carey, Edwards' electronics technical instructor is also a previous Moody Aviation instructor where he taught avionics for over eight years. He holds an Electrical Engineering Degree, FAA Airframe and Powerplant Certification and is a licensed pilot.



*Lawrence "Lever" Lee on left with
senior instructor George Carey on right*

Edwards & Associates, Inc. and its affiliated companies, Aeronautical Accessories, Inc. and Rotor Blades, Inc. have set the standard in the helicopter industry for over 30 years by providing quality, new and pre-owned aircraft, custom completion services, new products, maintenance, helicopter refurbishment and overhaul/repair services. Located in the Tri-County Industrial Park in Piney Flats, Edwards employs over 600 personnel who work on helicopters valued in excess of 10 million dollars and requires a training department that teaches specific skill sets that are required for this closely monitored industry. Our training department, which went into operation less than two years ago, has been faced with numerous challenges. The latest challenge required resourcefulness and innovation.

When a request came in to train personnel in troubleshooting the turbine engine starting system, we knew we would have a problem. Using an actual helicopter for hands-on training isn't practical due to aircraft availability or the possibility of damaging an aircraft during training. Since there is no substitute for hands-on training, our only choice was to build a fully operational trainer. Our newest instructor, Lever Lee took on the project with the consultation of senior instructor George Carey. Lever gathered components from all over the country to construct the trainer; however, some components he had to fabricate himself. The trainer was designed so the technician would use the same wiring schematics used to troubleshoot an actual helicopter. In addition, the instructors have the capability to induce numerous faults into the system.

The course starts off with classroom instruction on foundational electrical troubleshooting principals, and then covers electrical components found in a starter generator system, starter theory, and generator theory. Upon completion of classroom instruction students individually practice troubleshooting by finding induced faults. This hands-on practice not only sharpens the technician's troubleshooting skills but also helps solidify understanding the system operation. This project spurred another training aid that is in development, a fully functional Bell 407 air conditioning system.

Edwards & Associates, Inc.

PO Box 3689

Bristol, TN 37625

Phone: (423) 538-5111

Fax: (423) 538-8469

www.edwards-assoc.com



**EDWARDS &
ASSOCIATES, INC.**