

## TEST BED TECHNICIAN

### Nature of work

The principal and customary work of the employee in this employment class consists in the operation, maintenance and alteration of engine test beds in the aeronautics field according to the standards established by the manufacturers and by Transport Canada.

### Required qualifications

#### Schooling and experience

To have a diploma of college studies in an appropriate specialty or a diploma or an attestation of studies which is recognized as equivalent by the competent authority and have at least five (5) years of pertinent experience.

#### Other requirements

To have an extensive knowledge of piston engine and aircraft gas turbine engine physics and of the necessary parameters to do the performance analysis.

To know the operation of computers related to power units.

To know the methods of calibrating test bed instrumentation and be able to identify operating difficulties.

To know the technology and operation of aircraft engine propellers and their control systems.

To have a general basic knowledge of the following trades: electricity, electronics, instrumentation, hydraulics, pneumatics, sheet metal, welding, plumbing, painting, drawing, fibreglass and plastic moulding.

To know the Transport Ministry's technical regulations related to the maintenance and repair of aircraft engines as well as the safety measures required for the use and operation of the test beds with aircraft power units.

### Some characteristic duties

The employee in this employment class analyzes the conception and operation of aircraft power unit test beds in order to suggest alterations and improvements to them. He carries out the required alterations.

He detects technical problems related to test beds, dynamometers and feed and maintenance systems.

He identifies engine problems and corrects defects according to manufacturer standards.

He assists and helps the teaching staff using test beds during courses.

He is called upon to coordinate the work of support personnel involved in technical operations or programs for which he is responsible and to train less experienced personnel.

If need be, he performs any other related tasks.