**Job Class Profile:** Aircraft Maintenance Engineer I

**Pay Level:** CG-33

**Point Band:** 718-741

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**JOB SUMMARY**

The Aircraft Maintenance Engineer I is responsible for maintaining government aircraft in accordance with Transport Canada and manufacturer’s specifications.

**Key and Periodic Activities**

Performs aircraft maintenance engineering work which includes:
- Repairing aircraft systems, airframes, components and assemblies.
- Installing new engines in aircraft.
- Conducting tests and inspections of aircraft systems, engines and components.
- Inspecting and certifying all installations and routine maintenance done by aircraft mechanics to ensure the aircraft is in proper airworthy condition and meets Transport Canada Regulations.
- Completing aircraft maintenance records and inspection sheets.
- Attend training courses.
- May supervise personnel at auxiliary bases.

**SKILL**

**Knowledge**

**General and Specific Knowledge:**
- Knowledge of Transport Canada Regulations

**Formal Education and/or Certification(s):**
- Minimum: 2 – 3 year Diploma in Aircraft Maintenance Engineering Technology from a Transport Canada approved institution and possession of a valid Transport Canada M1 and M2 license.

**Years of Experience:**
- Minimum: 3 to 4 years

**Competencies:**
- Ability to operate a computer.
- Ability to write straightforward text to complete task cards.
- Ability to repair or calibrate machinery.
- Ability to operate machinery.

**Interpersonal Skills**
Interpersonal/communication skills are used to perform activities such as listening to information from other engineers or trainees and asking questions to get information.

The most significant contacts of are with other engineers, pilots, and managers.

**EFFORT**

**Physical Effort**

- The demands of the job occasionally result in considerable fatigue requiring rest.
- Regularly required to lift or move objects less than 10 lbs. and objects 10 - 25 lbs. Occasionally required to lift or move objects 25 - 50 lbs and over 50 lbs. An example of lifting or moving is moving a Q2 cart to aircraft to replenish oxygen.
- Stand on a regular basis and occasionally sit, walk, climb, drive and work in awkward or cramped positions. Examples include driving a tractor to move heavy aircraft, working in a gear well to work on snags or twisting in awkward positions to install components.
- Manual or physical activities include regularly performing fine finger or precision work, using hand tools that require accurate control and steadiness and using machinery or equipment that requires very controlled movement. Using gross motor skills, operating heavy equipment and using equipment that requires rapid physical movement and reflexes are required occasionally.

**Concentration**

- **Visual** concentration or alertness is required at all times when performing all maintenance and repair work.
- **Auditory** concentration or strain and other sensory demands such as touch, smell and taste are required on a constant basis.
- **Eye/hand co-ordination**, alertness to ensure health and safety of others and **higher than normal levels of attentiveness** and carefulness are essential when performing aircraft maintenance work. Alertness and concentration are required when performing repetitive processes such as pushing out aircraft at a small congested airport that has a lot of road traffic moving through it. Higher than normal levels of attentiveness and carefulness is required when performing all maintenance activities to ensure the safety of pilots and patients who are flying in the aircraft.
- **Time pressures and deadlines** can occur when completing maintenance and/or repair work on an aircraft that is scheduled for immediate departure.
- **Exact results and precision** is required on a constant basis due to the nature of work.

**Complexity**

- Work involves the maintenance and repair of government aircraft which involves a series of tasks and activities that are quite different but use similar skills and knowledge.
- A typical problem may be engine torque fluctuating or air conditioning not working which requires troubleshooting techniques that are not listed in manuals.
- References to assist in addressing problems, challenges and issues include manufacturer’s manuals, guidelines, procedures and team support.

**RESPONSIBILITY**

**Accountability and Decision-Making**
— Work tasks and activities are highly monitored and controlled.
— Have authority to make decisions around the service requirements of an aircraft. Approval would be required for purchasing, staffing related issues or making commitments on behalf of the organization.
— A high degree of independent discretion and judgement is required when determining problems or issues with an aircraft and/or making a decision to ground the aircraft.

Impact

— Work results can have a positive impact within the immediate work area, department/group and on pilots and passengers of the aircraft.
— Work activities may impact equipment, human resources and health and safety.
— Mistakes or errors could have an extreme impact on the immediate work area, customers/clients/general public, equipment, finances, material resources, and health and safety.
— Work tasks and activities are highly monitored and controlled and problems/errors are typically resolved within hours of identification.

Development and Leadership of Others

— Not directly responsible for the supervision of staff.
— There is a requirement to co-ordinate resource utilization and prioritize work assignments at auxiliary bases.

WORKING CONDITIONS

Environmental Working Conditions

— Personal risks require some safety equipment or precautions including ear defenders, respirators and other general safety equipment.
— The likelihood of minor cuts, bruises, abrasions or minor illnesses is significant while fractures, partial disability or total disability is limited.
— Constantly exposed to fumes. Exposure to unusual/distracting noise, dirt, dust, filth or garbage, hazardous chemicals, toxic or poisonous substances and heavy machinery is regular and exposure to glare, limited ventilation, limited lighting, vibration, bodily fluids and waste, infectious diseases, odours, dangerous heights or depths, wet or slippery surfaces awkward or confining spaces, sharp objects, adverse weather conditions and travel is occasional.