



## SAMJA Turbine Proficiency Rating

The emphasis of the SAMJA Turbine Proficiency Rating is on the SAFE operation of turbine powered aircraft. Both safe turbine operation and safe flying skills are required to qualify for this rating. The SAMJA Turbine Proficiency Rating can be acquired in two ways:

Firstly, by the applicant passing a formal test as outlined below. The onus is on the candidate to organise the test and invite the examiners.

Secondly, by the applicant citing an official SAMJA-run contest where the candidate realised a flight score of 60% or more of the possible flight score of the class in which he participated. The onus is on the candidate to submit a copy of the published results of the contest which is cited. No results older than three years can be submitted.

### Outline of Turbine Proficiency Test

Objective: The purpose of the flight test is for the turbine applicant to demonstrate his/her skills, knowledge, and understanding of how to safely operate and fly a turbine model aircraft.

Key Elements: The following elements are to be demonstrated through action along with verbal discussion of the element where appropriate.

1. Demonstration of proper turbine ground operations:
  - 1.1 Discuss the need to keep the tailpipe area clear of people and flammable items during start, shutdown, and all ground operations.
  - 1.2 Explain the response plan for dealing with an aircraft fire similar to one resulting from a hot start. *A fire extinguisher is to be present per safety regulations.*
  - 1.3 Explain the potential for a post crash fire and the response plan to deal with the situation. *Explanation has to include local fire department contact number and fire fighting equipment immediately available for the modeller to respond to the fire.*
  - 1.4 Explain typical turbine start-up procedure, and demonstrate if a turbine aircraft is utilized for flight demonstration.
  - 1.5 Explain typical turbine shutdown procedure, and demonstrate if a turbine aircraft is utilized for flight demonstration.
  
- 2 Demonstration of minimum flight skills:
  - 2.1 Take-off, to be held within 3 metres either direction of centre line, with smooth, controlled corrections as necessary.
  - 2.2 Horizontal Figure 8. Pilot to hold altitude to within +/- 20 meters during the Figure 8. *This demonstrates skills at both left and right hand patterns and the ability to control the models flight path.*
  - 2.3 Perform two aerobatic manoeuvres with combined looping and rolling elements to be selected by the turbine applicant. Examples include Cuban 8, Humpty Bump with ½roll, or similar manoeuvre. *This demonstrates the general flying skills of the modeller.*
  - 2.4 High Speed Circuit of the field performed at a safe high rate of speed. *This demonstrates the ability to control a model aircraft at speed*
  - 2.5 Rectangular Landing Approach including a missed approach go-around. This manoeuvre is to be in the opposite direction of the takeoff and landing if conditions allow. *This demonstrates the ability to control a model aircraft in the landing approach mode.*
  - 2.6 Landing to a complete stop. Again, smooth, controlled corrections to the aircraft's path after touchdown are required. The landing must be completed on the runway.

At no time during the flight shall the aircraft pass behind the designated safety line.

## **SAMJA Turbine Proficiency**

### **Declaration**

I, \_\_\_\_\_, am currently a SAMJA Qualified Judge / Contest Director/  
an experienced turbine model pilot with a turbine proficiency rating on file with the South African  
Model Jet Association .

I hereby declare that \_\_\_\_\_ has successfully demonstrated and  
explained the required turbine ground operations and has performed the turbine flight proficiency  
sequence as outlined in this document.

Signature :

SAMJA No:

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# SAMJA Turbine Proficiency

## TURBINE PILOT PROFICIENCY APPLICATION

I ..... , hereby  
declare that:

1. I am currently a member in good standing of the South African Model Jet Association.
2. I have successfully completed the qualification test flight for turbine-powered model aircraft under the supervision of two experienced turbine pilots, one of whom is a Judge / Contest Director, their report which is appended to this document.

**or** I have obtained a flight score of 60% or more in the Class at the SAMJA Contest on the (date), of which a copy of the official published results is appended to this application.

Signature :

SAMJA No:

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Application approved / rejected.

Proficiency card and badge posted on (date)

Signature:

For SAMJA Committee.