GOVERNMENT OF INDIA

OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION

DRONE TRAINING CIRCULAR 01 OF 2023

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Subject: Requirements for approval of Train the Trainer, Instructor Rating, Master Instructor Authorisation and change management.

1. Introduction

Rule 34 (1) of The Drone Rules 2021 states that the training for grant of RPC shall be conducted by DGCA authorised RPTO. Sub Rule 1 of the Rule 41 of said rules, empowers Director General to lay down criteria for training, syllabus, infrastructure, instructors, proficiency testing and issuance of remote pilot certificates. In line to the said rule, this circular is being issued to lay down criteria for approval of Train the Trainer, Instructor rating and Master Instructor Authorisation and related change management.

2. Definitions

2.1 **Remote Pilot Training organization (RPTO):** An organization authorised by the Directorate General of Civil Aviation to impart Remote Pilot Training to any individual seeking a Remote Pilot Certificate under Rule 34 of Drone Rules 2021.

2.2 **Train The Trainer:** An approval granted by DGCA to an authorised Remote Pilot Training organization (RPTO) to impart training to RPC holders desirous of obtaining Instructor rating.

2.3 **Remote Pilot** means an individual charged by the operator with duties essential to the operation of an unmanned aircraft and who manipulates the flight controls, as appropriate, during flight time.

2.4 **RPC Instructor** means an individual authorized by DGCA to impart training to a candidate enrolled in an authorised RPTO for the purpose of obtaining remote pilot certificate.

2.5 **Master Instructor** means an individual authorised by DGCA for imparting TTT Course.

2.6 **Command and control (C2) link** means the data link between the remotely piloted aircraft and the remote pilot station for the purposes of managing the flight.

2.7 **Detect and avoid:** The capability to see, sense or detect conflicting traffic or other hazards and take the appropriate action.

2.8 **Dual flight time:** Flight time during which a person is receiving flight instructions from a RPC Instructor using the remote pilot station during a remotely piloted aircraft flight.

2.9 **Flight time:** The total time from the moment a command and control (C2) link is established between the remote pilot station (RPS) and the remotely piloted aircraft (RPA) for the purpose of taking off or from the moment the remote pilot receives control following a

handover until the moment the remote pilot completes a handover or the C2 link between the RPS and the RPA is terminated at the end of the flight.

2.10 **Handover:** The act of passing piloting control from one remote pilot station to another.

2.11 **Remote pilot station (RPS):** The component of the remotely piloted aircraft system containing the equipment used to pilot the remotely piloted aircraft.

2.12 **Remotely piloted aircraft (RPA):** An unmanned aircraft which is piloted from a remote pilot station.

2.13 **Remotely piloted aircraft system (RPAS):** A remotely piloted aircraft, its associated remote pilot station(s), the required command and control links and any other components as specified in the type design.

3. Applicability & Scope

3.1. Provisions of this circular are applicable to Individual RPC holder, DGCA authorized Instructors/ Master Instructors, Remote Pilot Training Organizations and Train the Trainer Organizations.

3.2. The scope of this DTC is as follows;
- Conditions : VLOS
- Category: Rotorcraft
- Sub-Category: RPAS
- Class : Micro, Small , Medium (up to 50 Kgs)

4. Requirements for the issue of Instructor rating (RPAS)

4.1 Eligibility

4.1.1 The applicant shall have passed a Degree Course from a University/Institutes recognised by UGC/AICTE or equivalent; or having a valid PPL/ CPL, AME/ ATC Licence or Diploma (03 years) in technical subject from a recognized institute; and

4.1.2 The applicant shall have a valid RPC at the time of enrolment for RPI course in respective category and class.

4.2 Knowledge

4.2.1 The applicant shall demonstrate the ability to effectively assess trainees against the adapted competency model used in the authorized RPTO.

4.2.2 The applicant shall successfully complete the training and meet the qualifications of an authorized RPTO, appropriate to the delivery of competency-based training programmes.

4.2.3 The approved TTT shall focus on the development of competence in the following specific areas:

4.2.3.1 the adapted competency model of the remote pilot training Organization ;

4.2.3.2 in accordance with the assessment and grading system of the Remote Pilot training organization, making assessments by observing behaviours; gathering objective evidence regarding the observable behaviours of the adapted competency model used;

4.2.3.3 recognizing and highlighting performance that meets competency standards;

4.2.3.4 determining root causes for deviations below the expected standards of performance; and

4.2.3.5 Identifying situations that could result in unacceptable reductions in safety margins.

4.2.4 The applicant shall have met the competency requirements for the issue of a remote pilot

certificate as appropriate to the category and class.

4.2.5 In addition, the applicant shall have demonstrated a level of competency appropriate to the privileges granted to the holder of an RPAS instructor rating, in at least the following areas:

4.2.5.1 techniques of applied instruction;

4.2.5.2 assessment of student performance in those subjects in which ground instruction is given;

4.2.5.3 the learning process;

4.2.5.4 elements of effective teaching;

4.2.5.5 competency-based training principles, including student assessments;

4.2.5.6 evaluation of the training programme effectiveness;

4.2.5.7 lesson planning;

4.2.5.8 classroom instructional techniques;

4.2.5.9 use of training aids, including flight simulator as appropriate;

4.2.5.10 analysis and correction of student errors;

4.2.5.11 human performance relevant to RPAS, instrument flight and remote pilot Certificate training, including principles of TEM; and

4.2.5.12 Hazards involved in simulating system failures and malfunctions in the aircraft.

Note: The detailed syllabus is attached as Annexure -I

4.3 Skill

4.3.1 The applicant shall have successfully performed a formal competency assessment (final test) followed by oral exam by DGCA, prior to conducting instruction and assessment within a competency-based training programme at DGCA authorized RPTO.

4.3.2 The competency assessment shall be conducted during a practical training session in the category of RPA and associated RPAS for which RPAS instructor privileges are sought, including pre-flight, post-flight and ground instruction as appropriate.

4.3.3 The competency assessment shall be conducted by a person authorized (Master Instructor) by the DGCA.

4.4 Experience

4.4.1 The applicant shall have met the requirements for the issue of a remote pilot licence, shall maintain competencies and meet the recent experience requirements for the licence.

4.4.2 The applicant shall have a minimum RPA flying experience of 20 hours for respective class, as the case may be. Flying requirements shall be fulfilled on the date of application for Oral exam for RPI.

4.5 Remote pilot Instructor flying training.

4.5.1 The applicant shall, under the supervision of an RPAS master instructor authorized by the DGCA for that purpose:

4.5.1.1 have received training in RPAS instructional techniques including demonstration, student practices, recognition and correction of common student errors; and

4.5.1.2 have practiced instructional techniques in those flight manoeuvres and procedures in which it is intended to provide remote pilot certificate training.