## SUR FEY

## AMC2 UAS.OPEN.030(2)(b) UAS operations in subcategory A2

## ED Decision 2019/021/R

## PRACTICAL COMPETENCIES FOR PRACTICAL SELF-TRAINING

When executing the practical self-training, the remote pilot should perform as many flights as they deem necessary to gain a reasonable level of knowledge and the skills to operate the UAS.

The following list of practical competencies should be considered:

(a) Preparation of the UAS operation:

(1) make sure that the:

(i) chosen payload is compatible with the UAS used for the UAS operation;

(ii) zone of UAS operation is suitable for the intended operation; and

(iii) UAS meets the technical requirements of the geographical zone;

(2) define the area of operation in which the intended operation takes place in accordance with UAS.OPEN.040;

(3) define the area of operation considering the characteristics of the UAS;

(4) identify the limitations published by the MS for the geographical zone (e.g. no-fly zones, restricted zones and zones with specific conditions near the operation zone), and if needed, seek authorisation by the entity responsible for such zones;

(5) identify the goals of the UAS operation;

(6) identify any obstacles and the potential presence of uninvolved persons in the area of operation that could hinder the intended UAS operation; and

(7) check the current meteorological conditions and the forecast for the time planned for the operation.

(b) Preparation for the flight:

(1) assess the general condition of the UAS and ensure that the configuration of the UAS complies with the instructions provided by the manufacturer in the user's manual;

(2) ensure that all removable components of the UA are properly secured;

(3) make sure that the software installed on the UAS and on the remote pilot station (RPS) is the latest published by the UAS manufacturer;

(4) calibrate the instruments on board the UA, if needed;

(5) identify possible conditions that may jeopardise the intended UAS operation;

(6) check the status of the battery and make sure it is compatible with the intended UAS operation;

- (7) update the geo-awareness system; and
- (8) set the height limitation system, if needed.
- (c) Flight under normal conditions:
- (1) using the procedures provided by the manufacturer in the user's manual, familiarise with how to:
- (i) take off (or launch)
- (ii) make a stable flight:
- (A) hover in case of multirotor UA;
- (B) perform coordinated large turns;
- (C) perform coordinated tight turns;
- (D) perform straight flight at constant altitude;
- (E) change direction, height and speed;
- (F) follow a path;

(G) return of the UA towards the remote pilot after the UA has been placed at a distance that no longer allows its orientation to be distinguished, in case of multirotor UA;

(H) perform horizontal flight at different speed (critical high speed or critical low speed), in case of fixed wing UA;

- (iii) keep the UA outside no-fly zones or restricted zones, unless holding an authorisation;
- (iv) use some external references to assess the distance and height of the UA;
- (v) perform return to home procedure automatic or manual;
- (vi) land (or recovery); and
- (vii) perform landing procedure and missed approach in case of fixed wing UA; and
- (2) maintain a sufficient separation from obstacles;
- (d) Flight under abnormal conditions:
- (i) manage the UAS flight path in abnormal situations;
- (ii) manage a situation when the UAS positioning equipment is impaired;

(iii) manage a situation of incursion of a person into the area of operation, and take appropriate measures to maintain safety;

- (iv) manage the exit from the operation zone as defined during the flight preparation;
- (v) manage the incursion of a manned aircraft nearby the area of operation;
- (vi) manage the incursion of another UAS in the area of operation;
- (vii) select the safeguard mechanism relevant to a situation;

(viii) deal with a situation of a loss of attitude or position control generated by external phenomena;

- (ix) resume manual control of the UAS when automatic systems render the situation dangerous; and
- (x) carry out the loss of link procedure.
- (e) Briefing, debriefing and feedback:
- (i) conduct a review of the UAS operation; and
- (ii) identify situations when an occurrence report is necessary and complete the occurrence report.