

## Operators training curriculum examples

## Example from Emirates

## 4.4.7.4 Session Guide

|       | ı            |               |          |            |  |                   |  | _   | _     |  |  |  |
|-------|--------------|---------------|----------|------------|--|-------------------|--|-----|-------|--|--|--|
| Event | Time<br>Line | Event<br>Time | Scenario | Sim<br>Set | Examiner<br>Set-up   | Examiner<br>Guide | Elements   | OPT | Print |  |  |  |
|       | 00:00        | 00:10         |          |            | ADIRU ON.  |                   |  |     |       |  |  |  |
|       |              |               |          | Posit      | Position Set: REF ARPT OMDB; RWY 30R; Hold Clear.                |                   |  |     |       |  |  |  |
|       |              |               |          | Aircra     | Aircraft Set: ZFW 221T; CG 28% ALL; FUEL 30T. ADIRU RAPID ALIGN. |                   |  |     |       |  |  |  |
|       |              |               |          | Envir      | onment Set:  | 210/15KT 30       | 00 OVC005 25 1010. Insert WS FAA #5 TKOF MOD.                                |     |       |  |  |  |
|       |              |               | CANDIDAT | E 1 (Ca    | 1 (Captain)  |                   |  |     |       |  |  |  |
|       |              |               |          |            |  |                   | Load FMC   |     |       |  |  |  |
|       |              |               |          |            | Quick set-up for Take-off.                                       |                   |  |     |       |  |  |  |
|       |              |               |          | ENG        | ENG RAPID START. EXT Power OFF.                                  |                   |  |     |       |  |  |  |
|       |              |               |          |            | Flaps 5, FMS STORE.  |                   |  |     |       |  |  |  |
|       |              |               |          |            | Cabin Ready  |                   |  |     |       |  |  |  |
|       |              |               |          |            |  | 1.6               | Before take-off checks   |     |       |  |  |  |
|       |              |               |          |            |  | OBS               | Before take-off Procedure.   |     |       |  |  |  |
|       |              |               |          |            | Line up 30R  |                   |  |     |       |  |  |  |
|       |              |               |          |            |  | 1.5               | Taxiing in compliance with air traffic control or instructions of instructor |     |       |  |  |  |
|       |              |               |          |            |  | OBS               | Correct taxi technique.  |     |       |  |  |  |
| 1     | 00:10        | 00:05         | Windshea | r on tal   | keoff  |                   |  |     |       |  |  |  |
|       |              |               |          |            |  | 2.1               | Normal take-offs with different flap settings, including expedited take-off  | х   |       |  |  |  |
|       |              |               |          |            |  | OBS               | Take-off Procedure.  |     |       |  |  |  |
|       |              |               |          |            |  | OBS               | Correction rotation.   |     |       |  |  |  |
|       |              |               |          |            |  | OBS               | Correct crosswind technique.   |     |       |  |  |  |
|       |              |               | _        |            |  | 3.6.5             | Wind shear at take-off/landing   |     |       |  |  |  |
|       |              |               |          |            |  | OBS               | Windshear escape manoeuvre.  |     |       |  |  |  |
|       |              |               |          |            |  | OBS               | PM duties.   |     |       |  |  |  |



| COVIL | )-19 PH      | IASE I S      | SINGLE DA         | AY KE                              | CURRENT   |                   |  |     |       |  |  |
|-------|--------------|---------------|-------------------|------------------------------------|---|-------------------|--|-----|-------|--|--|
| Event | Time<br>Line | Event<br>Time | Scenario          | Sim<br>Set                         | Examiner<br>Set-up  | Examiner<br>Guide | Elements   | OPT | Briof |  |  |
|       |              |               |                   |                                    |   | OBS               | Flap retraction schedule.                                      |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Autopilot engagement.  |     |       |  |  |
| 2     | 00:15        | 00:05         | SID Adher         | Adherence                          |   |                   |  |     |       |  |  |
|       |              |               |                   |                                    | ATC advise  | turn right he     | eading 090, maintain 4000' due inbound traffic.                |     |       |  |  |
|       |              |               |                   |                                    |   | 3.9.1             | Adherence to departure and arrival routes and ATC instructions |     | х     |  |  |
|       |              |               |                   |                                    |   | OBS               | Correct navigation of SID or ATC instructions.                 |     |       |  |  |
| 3     | 00:20        | 00:05         | Traffic Avoidance |                                    |   |                   |  |     |       |  |  |
|       |              |               |                   | TCAS                               | TCAS Climb RA.  |                   |  |     |       |  |  |
|       |              |               |                   |                                    |   |                   | TCAS Event – Climb RA  |     |       |  |  |
|       |              |               |                   |                                    |   | 3.6.9             | ACAS Event   |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Correct Crew actions for TCAS Event.                           |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Correct ATC terminology.                                       |     |       |  |  |
| 4     | 00:25        | 00:05         | Non-Norm          | Non-Normal Management              |   |                   |  |     |       |  |  |
|       |              |               |                   | ATA 29: HYD PUMP LOW PRESS PRI - R |   |                   |  |     |       |  |  |
|       |              |               |                   |                                    |   |                   | HYD PRESS PRI R  |     |       |  |  |
|       |              |               |                   |                                    |   | 3.4.5             | Hydraulic system.  |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Timely management of Priorities.                               |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Correct application of EICAS procedures.                       |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Situation Awareness.   |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Decision Making and Problem Solving.                           |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Use of FMC ALTN page or DEP/ARR page if appropriate.           |     |       |  |  |
|       |              |               |                   |                                    |   | OBS               | Communication.   |     |       |  |  |
|       |              |               |                   |                                    | The Candidates will need to decide to continue or return. Send an ACARS message requesting EK 502 to return to OMDB. Provide vectors for return to 30L. |                   |  |     |       |  |  |
| 5     | 00:30        | 00:10         | Non-ILS A         | oproac                             | h   |                   |  |     |       |  |  |
|       |              |               |                   | Posit                              | ion Set: RWY  | 30L.              |  |     |       |  |  |
|       |              |               |                   |                                    |   |                   | Set up for RNAV 30L.   |     | х     |  |  |



|       |              |               | JII TOLL DI |            | CURRENT   |                   |   | _   | <b>4</b> _ |  |  |  |
|-------|--------------|---------------|-------------|------------|---|-------------------|---|-----|------------|--|--|--|
| Event | Time<br>Line | Event<br>Time | Scenario    | Sim<br>Set | Examiner<br>Set-up  | Examiner<br>Guide | Elements  | OPT | Brief      |  |  |  |
|       |              |               |             |            |   | 3.9.4             | Non-precision approach down to the MDH/A  |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | Descent and Approach Preparation.   |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | Descent and Approach Checklists.  |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | Non-ILS Approach Procedure using VNAV.  |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | PM duties.  |     |            |  |  |  |
|       |              |               |             |            |   | 5.1               | Normal landings* also after an ILS approach with transition to visual flight on reaching DH                         |     |            |  |  |  |
|       |              |               |             |            | End point:  | Stopped on r      | runway.   |     |            |  |  |  |
|       |              |               |             | CLEA       | CLEAR MALF.   |                   |   |     |            |  |  |  |
| 6     | 00:40        | 00:05         | Take-off w  | ith eng    | th engine failure between V1 and V2.                        |                   |   |     |            |  |  |  |
|       |              |               |             | Posit      | Position Set: RWY 30R; T/O.                                 |                   |   |     |            |  |  |  |
|       |              |               |             | Aircra     | Aircraft Set: FUEL 79T.                                     |                   |   |     |            |  |  |  |
|       |              |               |             | Envir      | Environment Set: CAT 1.                                     |                   |   |     |            |  |  |  |
|       |              |               |             | ATA 7      | ATA 71: ENGINE N1 SEIZURE L, PRESET V1 (174).               |                   |   |     |            |  |  |  |
|       |              |               |             |            | FMS STORE/RECALL. Mini-brief. Refresh Engine Out Procedure. |                   |   |     |            |  |  |  |
|       |              |               |             |            |   | 2.5.2             | Take-offs with simulated engine failure between V1 and V2   |     |            |  |  |  |
|       |              |               |             |            |   | 3.4.0             | Engine.   |     |            |  |  |  |
|       |              |               |             |            |   | 3.4.6             | Flight control and Trim system.   |     |            |  |  |  |
|       |              |               |             |            |   | 3.6.3             | Engine failures, shutdown and restart at a safe height  |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | Correct handling techniques and procedures during EFATO (refer FCTM) completion of Non Normal and Normal checklist. |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | PM duties.  |     |            |  |  |  |
|       |              |               |             |            |   | OBS               | Decision Making and Problem Solving.  |     |            |  |  |  |
|       |              |               |             |            | End point:  | Flaps in desir    | red position and CON thrust set.  |     |            |  |  |  |
|       |              |               |             |            | Gear DOW  | N, Flaps 20, 0    | GRD PROX FLAP.  |     |            |  |  |  |
|       |              |               |             | Aircra     | aft Set: FUEL   | 30T.              |   |     |            |  |  |  |



| COVID | D-19 PH      | IASE 1 S      | SINGLE DA  | AY RE      | CURRENT  |                   |  |     |       |  |  |
|-------|--------------|---------------|------------|------------|--|-------------------|--|-----|-------|--|--|
| Event | Time<br>Line | Event<br>Time | Scenario   | Sim<br>Set | Examiner<br>Set-up   | Examiner<br>Guide | Elements   | OPT | Brief |  |  |
| 7     | 00:45        | 00:05         | ILS Manua  | l Engin    | ngine Inoperative.   |                   |  |     |       |  |  |
|       |              |               |            | Posit      | Position Set: RWY 30L. 8 NM.                                   |                   |  |     |       |  |  |
|       |              |               |            | Envir      | onment Set:  | CAT 2.            |  |     |       |  |  |
|       |              |               |            |            |  | 3.9.3.4           | ILS Manual Engine Inoperative.   |     |       |  |  |
|       |              |               |            |            |  | OBS               | Landing Procedure – ILS  |     |       |  |  |
|       |              |               |            |            |  | OBS               | Engine inoperative ILS   |     |       |  |  |
|       |              |               |            |            |  | OBS               | Correct handling.  |     |       |  |  |
|       |              |               |            |            |  | OBS               | PM duties.   |     |       |  |  |
| 8     | 00:50        | 00:05         | Missed Ap  | proach     | roach One Engine Inoperative                                   |                   |  |     |       |  |  |
|       |              |               |            |            | Note: Missed Approach due insufficient visual reference.       |                   |  |     |       |  |  |
|       |              |               |            |            | Initial Go Around actions manually flown until passing 1000ft. |                   |  |     |       |  |  |
|       |              |               |            |            |  | 4.3               | Manual go-around with the critical engine simulated inoperative after an instrument approach on reaching DH, MDH or MAPt |     |       |  |  |
|       |              |               |            |            |  | OBS               | Go Around and Missed Approach Procedure.   |     |       |  |  |
|       |              |               |            |            |  | OBS               | Correct handling.  |     |       |  |  |
|       |              |               |            |            |  | OBS               | PM duties.   |     |       |  |  |
|       |              |               |            |            | End point: Established at MISAP ALT.                           |                   |  |     |       |  |  |
|       |              |               |            |            | Flaps 5.   |                   |  |     |       |  |  |
| 9     | 00:55        | 00:05         | ILS Engine | Inoper     | rative (A/P av   | /ailable).        |  |     |       |  |  |
|       |              |               |            | Posit      | Position Set: 12NM. Slew back outside IAF (ULDOT).             |                   |  |     |       |  |  |
|       |              |               |            | Envir      | Environment Set: CAT 1.  |                   |  |     |       |  |  |
|       |              |               |            |            | Engine inoperative ILS 30L. A/P available, TAC operative.      |                   |  |     |       |  |  |
|       |              |               |            |            |  | 3.9.3.3           | Precision approaches down to a decision height (DH) not less than 60 m (200 ft) with autopilot                           |     |       |  |  |
|       |              |               |            |            |  | OBS               | Landing Procedure – ILS  |     |       |  |  |
|       |              |               |            |            |  | OBS               | Engine inoperative ILS   |     |       |  |  |
|       |              |               |            |            |  | OBS               | Correct handling.  |     |       |  |  |



| Event | Time<br>Line     | Event<br>Time | Scenario                       | Sim<br>Set                     | Examiner<br>Set-up   | Examiner<br>Guide | Elements  | OPT | Briof |  |  |  |
|-------|------------------|---------------|--------------------------------|--------------------------------|--|-------------------|---|-----|-------|--|--|--|
|       |                  |               |                                |                                |  | OBS               | PM duties.  |     |       |  |  |  |
| 10    | 01:00            | 00:05         | Landing w                      | anding with Engine Inoperative |  |                   |   |     |       |  |  |  |
|       |                  |               |                                |                                | Note: A/P available for the approach but landing must be manual. |                   |   |     |       |  |  |  |
|       |                  |               |                                |                                |  | 5.5               | Landing with critical engine simulated inoperative  |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Flight from DA to touchdown.  |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Correct landing roll procedure.   |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Correct use of reverse thrust and braking.  |     |       |  |  |  |
|       |                  |               |                                |                                | End point: Stopped on runway.                                    |                   |   |     |       |  |  |  |
|       |                  |               |                                | CLEA                           | CLEAR MALF.  |                   |   |     |       |  |  |  |
|       |                  |               |                                | ALL S                          | ALL SYSTEM RESET   |                   |   |     |       |  |  |  |
|       |                  |               |                                |                                | Fuel Control Switch RUN.   |                   |   |     |       |  |  |  |
|       | ENG RAPID START. |               |                                |                                |  |                   |   |     |       |  |  |  |
| 11    | 01:05            | 00:05         | Rejected Take-off & Evacuation |                                |  |                   |   |     |       |  |  |  |
|       |                  |               |                                | Position Set: RWY 30R; T/O.    |  |                   |   |     |       |  |  |  |
|       |                  |               |                                | ATA 2                          | ATA 26: ENGINE FIRE UNEXTINGUISHABLE R - Preset 120KTS.          |                   |   |     |       |  |  |  |
|       |                  |               |                                |                                | FMS RECALL. Mini-brief.  |                   |   |     |       |  |  |  |
|       |                  |               |                                |                                |  | 2.6               | Rejected take-off at a reasonable speed before reaching V1  |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Correct RTO actions.  |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | PM duties.  |     |       |  |  |  |
|       |                  |               |                                |                                |  | 3.6.1             | Fire drills e.g. engine, APU, cabin, cargo compartment, flight deck, wing and electrical fires including evacuation |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Correct CA and F/O on ground emergency actions.   |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Correct FIRE ENG Memory Items.  |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Decision Making.  |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               | Communications.   |     |       |  |  |  |
|       |                  |               |                                |                                |  | OBS               |   |     |       |  |  |  |



|                   | Time  | Event |  | Sim   | Examiner   | Examiner    |   | ОРТ | Brief    |  |  |  |  |
|-------------------|-------|-------|--|---|--|-------------|---|-----|----------|--|--|--|--|
| Event             | Line  | Time  | Scenario                                   | Set   | Set-up   | Guide       | Elements  | ō   | Bri      |  |  |  |  |
|                   |       |       | Position Set: REF ARPT OMDB; RWY 30R; T/O. |   |  |             |   |     |          |  |  |  |  |
| 12                | 01:10 | 00:55 | CANDIDAT                                   | Repeat items 1-10 (except item 4 not required)                                      |  |             |   |     |          |  |  |  |  |
|                   |       |       |  | Repe  |  |             |   |     | <u> </u> |  |  |  |  |
|                   |       |       |  |   | End point: Stopped on runway.  Position Set: T/O.  |             |   |     |          |  |  |  |  |
|                   |       |       |  | Positi  | Aircraft Set: FUEL 30T   |             |   |     |          |  |  |  |  |
| $\longrightarrow$ |       |       |  |   | Environment Set: 8000 OVC020   |             |   |     |          |  |  |  |  |
|                   |       |       |  | Envir   | nvironment Set: 8000 OVC020  FMS RECALL.   |             |   |     |          |  |  |  |  |
|                   |       |       |  |   | FMS RECAL  | .L.         |   |     | -        |  |  |  |  |
| 13                | 02:05 | 00:10 | Visual Circ                                | uit   |  |             |   |     | X        |  |  |  |  |
|                   |       |       |  |   | End point stopped on runway.   |             |   |     |          |  |  |  |  |
|                   |       |       | CANDIDAT                                   |   | Position Set: RWY 30R; T/O.  |             |   |     |          |  |  |  |  |
|                   |       |       | CANDIDAT                                   | ı   |  |             |   |     |          |  |  |  |  |
|                   |       |       | RHS Povol                                  | Complete a visual circuit or continue to RHS Revalidation as required.  alidation   |  |             |   |     |          |  |  |  |  |
| 14                | 02:15 | 00:05 |  | HS Revalidation Take-off with engine failure between V1 and V2.                     |  |             |   |     |          |  |  |  |  |
| 14                | 02.13 | 00.03 | Take-Off W                                 |   | ATA 71: ENGINE N1 SEIZURE L, PRESET V1 (167).  |             |   |     |          |  |  |  |  |
|                   |       |       |  | 711717  | FMS RECALL. Mini-brief. Refresh Engine Out Procedure.  |             |   |     |          |  |  |  |  |
|                   |       |       |  |   | TIVISTILICAL   | 7.1         | Take-offs with simulated engine failure between V1 and  |     |          |  |  |  |  |
|                   |       |       |  |   |  |             | V2  |     |          |  |  |  |  |
|                   |       |       |  | Secure Engine & Checklists as appropriate.  |  |             |   |     |          |  |  |  |  |
| 15                | 02:20 | 00:05 | Visual Circ                                | cuit with Go-Around   |  |             |   |     |          |  |  |  |  |
|                   |       |       |  | Manually flown visual circuit and go-around from 200ft with one engine inoperative. |  |             |   |     |          |  |  |  |  |
|                   |       |       |  |   | operative  | 7.2         | Missed Approach One Engine Inoperative                  |     |          |  |  |  |  |
| 16                | 02:25 | 00:05 | Landing w                                  | with One Engine Inoperative   |  |             |   |     |          |  |  |  |  |
|                   |       |       |  |   | Visual Circuit to landing. Note: Full visual circuit or REPOS outside the IAF is required for recency. |             |   |     |          |  |  |  |  |
|                   |       |       |  |   | requireuro   | 7.3         | Landing with critical engine simulated inoperative      |     |          |  |  |  |  |
|                   |       |       |  |   | End point: Stopped on runway.  |             |   |     |          |  |  |  |  |
|                   | Time  | Event |  | Sim   | Examiner   | Examiner    | ,   | -   | 4        |  |  |  |  |
| Event             | Line  | Time  | Scenario                                   | Set   | Set-up   | Guide       | Elements  | OPT | Brief    |  |  |  |  |
|                   |       |       |  |   | R MALF.  |             |   |     |          |  |  |  |  |
|                   |       |       |  | ALL SYSTEM RESET  |  |             |   |     |          |  |  |  |  |
|                   |       |       |  |   | Fuel Control Switch RUN. Flaps 5. FMS RECALL.  |             |   |     |          |  |  |  |  |
|                   |       |       |  | ENG RAPID START.  |  |             |   |     |          |  |  |  |  |
| 17*               | 02:30 | 00:05 | Rejected Take-off (time available)         |   |  |             |   |     |          |  |  |  |  |
|                   |       |       |  | Position Set: T/O.  |  |             |   |     |          |  |  |  |  |
|                   |       |       |  | ATA 7   | ATA 71: ENGINE N1 SEIZURE L, PRESET 120KTS.  |             |   |     |          |  |  |  |  |
|                   |       |       |  |   |  | 2.6         | Rejected take-off at a reasonable speed before reaching |     |          |  |  |  |  |
|                   |       |       |  |   | End noint s  | tonned with | V1<br>PA complete.                                      |     | $\vdash$ |  |  |  |  |
|                   |       |       |  | Positi  |  |             | RWY 12R; Gate F17.                                      |     | $\vdash$ |  |  |  |  |
|                   |       |       |  |   | L RESET, EIC   | ,           | HANT TAIN, GOLE I IT.                                   | 1   | $\vdash$ |  |  |  |  |
|                   |       |       | I  | LIUIA   | L NESET, LIC   | MJ NLJLI.   |   |     | Ш_       |  |  |  |  |