

'AMC & GM to Part-ARA — Issue 1, Amendment 10'

The Annex to Decision 2012/006/R of 19 April 2012 is hereby amended as follows:

The text of the amendment is arranged to show deleted text, new or amended text as shown below:

- (a) deleted text is ~~struck through~~;
- (b) new or amended text is highlighted in **blue**;
- (c) an ellipsis '(...)' indicates that the rest of the text is unchanged.

AMC1 ARA.GEN.300(a);(b);(c) is replaced as follows:

AMC1 ARA.GEN.300(a);(b);(c) Oversight

EVALUATION OF APPROVED TRAINING ORGANISATIONS' OPERATIONAL SAFETY RISK ASSESSMENT

As part of the initial certification or the continuing oversight of an ATO, the competent authority should normally evaluate its safety risk assessment processes related to hazards identified by the ATO as having an interface with its operations. These safety risk assessments should be identifiable processes of the ATO's management system. As part of its continuing oversight, the competent authority should also remain satisfied as to the effectiveness of these safety risk assessments.

(a) General methodology for operational hazards

- (1) The competent authority should establish a methodology for evaluating the safety risk assessment processes of the ATO's management system.
- (2) When related to operational hazards, the competent authority's evaluation under its normal oversight process should be considered satisfactory if the ATO demonstrates its competence and capability to:
 - (i) understand the hazards identified and their consequences on its operations;
 - (ii) be clear on where these hazards may exceed acceptable safety risk limits;
 - (iii) identify and implement mitigations including suspension of operations where mitigation cannot reduce the risk to within safety risk limits;
 - (iv) develop and execute effectively, robust procedures for the preparation and the safe operation of the flights subject to the hazards identified;
 - (v) assess the competence and currency of its staff in relation to the duties for the intended operations and implement any necessary training; and
 - (vi) ensure sufficient numbers of qualified and competent staff for such duties.
- (3) The competent authority should take into account:
 - (i) the ATO's recorded mitigations for each unacceptable risk identified are in place;
 - (ii) the operational procedures specified by the ATO with the most significance to safety appear to be robust; and

that the staff on which the ATO depends in respect of those duties necessary for the intended operations are trained and assessed as competent in the relevant procedures.

EVALUATION OF APPROVED TRAINING ORGANISATIONS' VOLCANIC ASH SAFETY RISK ASSESSMENT

- (b) In addition to the general methodology for operational hazards, the competent authority's evaluation under its normal oversight process should also assess the ATO's competence and capability to:

- (1) choose the correct information sources to use to interpret the information related to volcanic ash contamination forecast and to resolve correctly any conflicts among such sources; and
- (2) take account of all information from its type certificate holders (TCHs) concerning volcanic ash-related airworthiness aspects of the aircraft it operates, and the related pre-flight, in-flight and post flight precautions to be observed.

AMC1 ARA.FCL.300(b) Examination procedures

THEORETICAL KNOWLEDGE EXAMINATIONS FOR PROFESSIONAL LICENCES AND INSTRUMENT RATINGS

With regard to the IR(A), CBIR(A) and ~~EIR~~BIR, these tables apply to theoretical knowledge examinations for applicants who have completed the appropriate elements of theoretical knowledge instruction of a modular training course for the IR(A) according to Appendix 6 Section A, for the CBIR(A) according to Appendix 6 Section Aa, and for the ~~EIR~~BIR according to ~~FCL.825~~FCL.835.

Subject 010 — AIR LAW										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and IR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:00	0:45	1:00	0:45	0:45	0:45	0:30	*	*	*
Distribution of questions with regard to the topics of the syllabus										
010 01	02	02	02	02	02	XX	XX	XX	XX	XX
010 02	01	01	01	01	01	XX	XX	XX	XX	XX
010 03	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
010 04	01	01	01	01	01	01	01	XX	XX	XX
010 05	09	09	09	09	09	06	05	XX	XX	02
010 06	10	05	10	05	05	08	06	XX	06	XX
010 07	06	04	06	04	04	06	03	XX	XX	06
010 08	01	01	01	01	01	02	01	XX	01	XX
010 09	08	05	08	05	05	07	02	XX	02	XX
010 10	01	01	01	01	01	XX	XX	XX	XX	XX
010 11	01	01	01	01	01	XX	XX	XX	XX	XX
010 12	02	02	02	02	02	XX	XX	XX	XX	XX
010 13	02	01	02	01	01	XX	XX	XX	XX	XX
Total number of questions	44	33	44	33	33	30	18	XX	09	08

Subject 021 — AIRCRAFT GENERAL KNOWLEDGE — AIRFRAME/SYSTEMS/POWER PLANT										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	2:00	1:30	2:00	2:00	1:30	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
021 01	02	01	02	02	01	XX	XX	XX	XX	XX
021 02	02	02	02	02	01	XX	XX	XX	XX	XX
021 03	05	03	03	03	02	XX	XX	XX	XX	XX
021 04	05	04	03	03	02	XX	XX	XX	XX	XX
021 05	08	06	05	05	04	XX	XX	XX	XX	XX
021 06	05	02	02	02	02	XX	XX	XX	XX	XX
021 07	02	02	02	02	02	XX	XX	XX	XX	XX
021 08	05	03	05	05	03	XX	XX	XX	XX	XX
021 09	15	11	14	14	09	XX	XX	XX	XX	XX
021 10	06	11	06	06	09	XX	XX	XX	XX	XX
021 11	19	11	17	17	09	XX	XX	XX	XX	XX
021 12	03	02	03	03	02	XX	XX	XX	XX	XX
021 13	03	02	XX	XX	XX	XX	XX	XX	XX	XX
021 14	XX	XX	01	01	01	XX	XX	XX	XX	XX
021 15	XX	XX	04	04	03	XX	XX	XX	XX	XX
021 16	XX	XX	06	06	05	XX	XX	XX	XX	XX
021 17	XX	XX	05	05	05	XX	XX	XX	XX	XX
Total number of questions	80	60	80	80	60	XX	XX	XX	XX	XX

Subject 022 — AIRCRAFT GENERAL KNOWLEDGE — INSTRUMENTATION										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and IR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:30	1:00	1:30	1:30	1:00	0:30	0:20	*	*	*
Distribution of questions with regard to the topics of the syllabus										
022 01	03	03	03	03	03	XX	XX	XX	XX	XX
022 02	08	08	09	09	08	04	04	03	XX	XX
022 03	02	02	03	03	02	01	01	01	XX	XX
022 04	04	04	06	06	04	02	02	03	XX	XX
022 05	03	XX	03	03	XX	XX	XX	XX	XX	XX
022 06	11	09	XX	XX	XX	02	XX	XX	XX	XX
022 07	XX	XX	14	14	11	XX	XX	XX	XX	XX
022 08	03	02	XX	XX	XX	01	XX	XX	XX	XX
022 09	04	XX	XX	XX	XX	XX	XX	XX	XX	XX
022 10	02	XX	XX	XX	XX	XX	XX	XX	XX	XX
022 11	06	01	06	06	XX	03	01	XX	XX	01
022 12	08	07	09	09	07	03	XX	XX	XX	XX
022 13	04	03	05	05	04	03	03	04	XX	XX
022 14	01	01	01	01	01	XX	XX	XX	XX	XX
022 15	01	XX	01	01	XX	01	01	XX	XX	XX
Total number of questions	60	40	60	60	40	20	12	11	XX	01

Subject 031 — FLIGHT PERFORMANCE AND PLANNING — MASS AND BALANCE										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:15	1:00	1:15	1:15	1:00	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
031 01	01	01	03 01	01	01	XX	XX	XX	XX	XX
031 02	08	07	09	09	07	XX	XX	XX	XX	XX
031 03	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
031 04	05	04	04	04	04	XX	XX	XX	XX	XX
031 05	09	07	09	09	07	XX	XX	XX	XX	XX
031 06	02	02	02	02	02	XX	XX	XX	XX	XX
Total number of questions	25	21	25	25	21	XX	XX	XX	XX	XX

Subject 032 — FLIGHT PERFORMANCE AND PLANNING — PERFORMANCE (AEROPLANES)										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/I R	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	2:00	1:15	XX	XX	XX	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
032 01	12	12	XX	XX	XX	XX	XX	XX	XX	XX
032 02	06	09	XX	XX	XX	XX	XX	XX	XX	XX
032 03	03	06	XX	XX	XX	XX	XX	XX	XX	XX
032 04	18	01	XX	XX	XX	XX	XX	XX	XX	XX
032 05	06	XX	XX	XX	XX	XX	XX	XX	XX	XX
Total number of questions	45	28	XX	XX	XX	XX	XX	XX	XX	XX

Subject 033 — FLIGHT PERFORMANCE AND PLANNING — FLIGHT PLANNING AND MONITORING										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	2:00	1:30	2:00	1:30	1:30	1:15	1:00	*	*	*
Distribution of questions with regard to the topics of the syllabus										
033 01	06	11	07	11	11	XX	XX	XX	XX	XX
033 02	13	XX	13	XX	XX	13	12	XX	07	XX
033 03	11	10	10	10	10	05	05	XX	XX	01
033 04	06	06	06	06	06	05	04	XX	XX	02
033 05	01	01	01	01	01	01	01	XX	XX	01
033 06	05	05	05	05	05	03	XX	XX	XX	XX
Total number of questions	42	33	42	33	33	27	22	XX	07	04

Subject 034 — FLIGHT PERFORMANCE AND PLANNING — PERFORMANCE (HELICOPTERS)										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H) /IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	XX	XX	1:15	1:15	0:45	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
034 01	XX	XX	12	12	11	XX	XX	XX	XX	XX
034 02	XX	XX	07	07	09	XX	XX	XX	XX	XX

034 03	XX	XX	03	03	XX	XX	XX	XX	XX	XX
034 04	XX	XX	13	13	XX	XX	XX	XX	XX	XX
Total number of questions	XX	XX	35	35	20	XX	XX	XX	XX	XX

Subject 040 — HUMAN PERFORMANCE										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:30	1:00	1:30	1:30	1:00	1:00	0:30	*	*	*
Distribution of questions with regard to the topics of the syllabus										
040 01	04	03	04	04	03	03	01	01	XX	XX
040 02	24	18	24	24	18	18	08	07	XX	XX
040 03	20	14	20	20	14	14	07	08	XX	XX
Total number of questions	48	35	48	48	35	35	16	16	XX	XX

Subject 050 — METEOROLOGY										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	2:00	1:30	2:00	2:00	1:30	1:30	0:50	*	*	*
Distribution of questions with regard to the topics of the syllabus										
050 01	10	08	10	10	08	08	04	02	XX	XX
050 02	10	06	10	10	06	06	03	02	XX	XX
050 03	03	03	03	03	03	03	01	01	XX	XX
050 04	08	06	08	08	06	06	05	05	XX	XX
050 05	02	02	02	02	02	02	02	03	XX	XX
050 06	07	06	07	07	06	06	04	XX	XX	04
050 07	06	02	06	06	02	02	01	XX	XX	01
050 08	08	03	08	08	03	03	01	XX	XX	XX
050 09	14	13	14	14	13	13	08	XX	XX	10
050 10	16	14	16	16	14	14	06	XX	06	XX
Total number of questions	84	63	84	84	63	63	35	13	06	15

Subject 061 — GENERAL NAVIGATION										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	2:15	2:00	2:15	2:15	2:00	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
061 01	28	22	28	28	22	XX	XX	XX	XX	XX
061 02	07	06	07	07	06	XX	XX	XX	XX	XX
061 03	05	05	05	05	05	XX	XX	XX	XX	XX
061 04	12	09	12	12	09	XX	XX	XX	XX	XX
061 05	03	03	03	03	03	XX	XX	XX	XX	XX
Total number of questions	55	45	55	55	45	XX	XX	XX	XX	XX

Subject 062 — RADIO NAVIGATION										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H))	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:30	0:30	1:30	1:00	0:30	1:00	0:40	*	*	*
Distribution of questions with regard to the topics of the syllabus										
062 01	05	04	05	05	04	03	XX	XX	XX	XX
062 02	22	11	22	20	11	22	13	XX	06	XX

062 03	11	02	11	08	02	05	03	XX	02	XX
062 04	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
062 05	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
062 06	15	05	15	11	05	08	04	XX	04	XX
062 07	13	XX	13	XX	XX	06	04	XX	07	XX
Total number of questions	66	22	66	44	22	44	24	XX	19	XX

Subject 070 — OPERATIONAL PROCEDURES										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB-IR(A) & EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:15	1:00	1:15	1:00	0:45	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
071 01	17	09	10	08	08	XX	XX	XX	XX	XX
071 02	24	20	22	17	17	XX	XX	XX	XX	XX
071 03	XX	XX	06	05	05	XX	XX	XX	XX	XX
071 04	01	01	02	02	02	XX	XX	XX	XX	XX
Total number of questions	42	30	40	32	32	XX	XX	XX	XX	XX

Subject 081 — PRINCIPLES OF FLIGHT (AEROPLANES)										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:30	1:15	XX	XX	XX	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
081 01	14	13	XX	XX	XX	XX	XX	XX	XX	XX
081 02	04		XX	XX	XX	XX	XX	XX	XX	XX
081 03	09	07	XX	XX	XX	XX	XX	XX	XX	XX
081 04	04	03	XX	XX	XX	XX	XX	XX	XX	XX
081 05	03	03	XX	XX	XX	XX	XX	XX	XX	XX
081 06	03	03	XX	XX	XX	XX	XX	XX	XX	XX
081 07	04	04	XX	XX	XX	XX	XX	XX	XX	XX
081 08	05	04	XX	XX	XX	XX	XX	XX	XX	XX
Total number of questions	46	37	XX	XX	XX	XX	XX	XX	XX	XX

Subject 082 — PRINCIPLES OF FLIGHT (HELICOPTERS)										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	XX	XX	1:15	1:15	1:15	XX	XX	XX	XX	XX
Distribution of questions with regard to the topics of the syllabus										
082 01	XX	XX	06	06	06	XX	XX	XX	XX	XX
082 02	XX	XX	03	03	03	XX	XX	XX	XX	XX
082 03	XX	XX	01	01	01	XX	XX	XX	XX	XX
082 04	XX	XX	11	11	11	XX	XX	XX	XX	XX
082 05	XX	XX	08	08	08	XX	XX	XX	XX	XX
082 06	XX	XX	04	04	04	XX	XX	XX	XX	XX
082 07	XX	XX	06	06	06	XX	XX	XX	XX	XX
082 08	XX	XX	03	03	03	XX	XX	XX	XX	XX
Total number of questions	XX	XX	42	42	42	XX	XX	XX	XX	XX

Subject 090 - COMMUNICATION										
Theoretical knowledge examination										
Exam length, total number of questions, and distribution of questions										
	ATPL(A)	CPL(A)	ATPL(H)/ IR	ATPL(H)	CPL(H)	IR(A) and IR(H)	CB- IR(A) and EIR	BIR M01	BIR M02	BIR M03
Time allowed (hours)	1:00	1:00	1:00	1:00	1:00	1:00	1:00	*	*	*
Distribution of questions with regard to the topics of the syllabus										
090 01	04	04	04	04	04	04	04	XX	XX	02
090 02	17	17	17	17	17	17	17	XX	XX	06
090 03	02	02	02	02	02	02	02	XX	XX	01
090 04	04	04	04	04	04	04	04	XX	XX	02
090 05	03	03	03	03	03	03	03	XX	XX	03
090 06	02	02	02	02	02	02	02	XX	XX	01
090 07	02	02	02	02	02	02	02	XX	XX	01
Total number of questions	34	34	34	34	34	34	34	XX	XX	16

* Refer to AMC2 ARA.FCL.300(b)

AMC2 ARA.FCL.300(b) Examination procedures

TOTAL TIME ALLOWED AND TOTAL NUMBER OF QUESTIONS FOR BIR EXAMINATION

- (a) The total number of questions for the examination for Module 1 is 40 questions and the total time allowed for the Module 1 examination is 1:20 hours.
- (b) The total number of questions for the examination for Module 2 is 41 questions and the total time allowed for the Module 2 examination is 1:30 hours.
- (c) The total number of questions for the examination for Module 3 is 44 questions and the total time allowed for the Module 3 examination is 1:30 hours.