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**UPGRADE OF AIRCRAFT MAINTENANCE ENGINEERS LICENCE CATEGORIES  
“A”, “C”, “A” & “C”, “R” AND “X” TO B1/B2 LICENCE CATEGORIES**

**1.0 PURPOSE**

This Advisory Circular is issued to guide holders of Aircraft Maintenance Engineers licence (AMEL) in Categories “A”, “C”, “R” and “X” to convert to the revised B1 and B2 Licence Categories during the transition period which ends on 27 March, 2027.

**2.0 REFERENCE**

- 2.1 Civil Aviation (Personnel Licensing) Regulations, as amended.
- 2.2 Personnel Licensing AMEL Syllabus


**3.0 INFORMATION AND GUIDANCE**

3.1 A Licensed Aircraft Maintenance Engineer, who holds a valid licence in a Category issued under the Civil Aviation (Personnel Licensing) Regulations shall be re-issued with licences that are commensurate with category as appropriate to B1 and B2 Licence categories under the amended Civil Aviation (Personnel Licensing) Regulations, 2023 after undertaking and passing examinations in the relevant Modules.

3.2 A holder of an Aircraft Maintenance Engineer Licence (AMEL) in Categories “A,” “C,” “R,” and “X” is required to apply for licence reissue by submitting the prescribed application form to the Authority. The online application form must be duly signed and accompanied by proof of certification from an authorised person at the applicant’s place of work, such as an AMO, ATO, or Air Operator.

3.3 The new licence issued shall be in line with the categories and ratings as specified in the Personnel Licensing AMEL Syllabus.

**3.4 License Upgrade**

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3.4.1 Table 1 below indicates the licence without type rating categories under the old system and the revised categories to be issued under the revised Personnel Licensing AMEL Syllabus.

**TABLE 1 – WITHOUT TYPE RATING AMEL CATEGORIES**

Old System	New System
<i>“A” Aeroplanes</i>	<i>B1.1, B1.2</i>
“C” Gas-turbine Engines	B1.1
<i>“C” Piston Engines</i>	<i>B1.2</i>
‘A’ and ‘C’ Turbine-Engined Rotorcraft	B1.3
‘A’ and ‘C’ Piston-Engined Rotorcraft	B1.4
‘A’ and ‘C’ Gas Turbine Engine Airship	B1.5
‘A’ and ‘C’ Piston Engine Airship	B1.6
“X” Electrical	B2
“X” Instruments	B2
“X” Compass Compensation	B2
“X” Automatic Pilots-Aeroplanes	B2
“X” Automatic Pilots Rotorcraft	B2
“R” Radio Communication and Navigation	B2
“R” Radar	B2

3.4.2 To convert the existing licence to the revised license category, an applicant must satisfy requirements stipulated in Appendix 1 of this Advisory Circular.

	<p style="text-align: center;"><b>TANZANIA CIVIL AVIATION AUTHORITY</b>  <b>SAFETY REGULATION</b>  <b>PERSONNEL LICENSING</b></p>	<p style="text-align: center;"><b>Revision: 0</b>  <b>Advisory</b>  <b>Circular</b></p>
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### 3.5 Transition Period

3.5.1 The licence privileges extended to AMEL holders with licenses that do not comply with amended Civil Aviation (Personnel Licensing) Regulations will automatically be invalid on 27 March, 2027


3.5.2 It is the responsibility of the affected **AMEL holder to upgrade his/her licence** to the requirements of the Civil Aviation (Personnel Licensing) Regulations, as amended within the transition period stipulated by the Authority for that purpose.

3.5.3 AMEL holders who will have not up graded their licences by 27 March, 2027 shall lose privileges or the licences as the case may be and shall have to be re-examined as guided by the advisory circular TCAA-AC-SR-PEL 013 (Issue, Re-Issue and Renewal of AMEL)




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**Director of Safety Regulation**

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## APPENDIX 1: GUIDANCE FOR UPGRADE TO B1/B2 LICENSING SYSTEM

### KEY

1. TCAA LC – Tanzania Licensing Category
2. EASA LC – European Aviation Safety Agency Licensing Category
3. EASA - European Aviation Safety Agency

TCAA LC	MODULES	Modules Trained	EASA PART 66	MODULES	Modules Trained	REMARKS
"A" Aeroplanes	1	Regulations	A1/B1.1	10	Aviation Legislation	<i>For a holder of Category "A" license to convert to A1/B1.1 license, modules 15&amp; 17 examinations are required.</i>  <i>Module 17- Propeller</i>  <i>Module 15-Gas Turbine Engines</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	



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TCAA LC	MODULES	Modules Trained	EASA PART 66	MODULES	Modules Trained	REMARKS
	3	Airframe General		8	Basic Aerodynamics	
	4	Aeroplanes		11A	Turbine Aeroplane Aerodynamics, Structures and Systems	
	13	Human Factors		9A	Human Factors	
				17A	Propellers	
				15	Gas Turbine Engines	
<b>"C" Gas Turbine Engines</b>	1	Regulations	<b>A1/B1.1</b>	10	Aviation Legislation	<i>For a holder of Category "C" license to convert to A1/B1.1 license, module 11 examinations are required.  11A- Turbine Aeroplane Aerodynamics, Structures and Systems</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic	

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					Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	7	Propellers		17A	Propeller	
	9	Human Factors		9A	Human Factors	
	8	Turbine Engines		15	Gas Turbine Engines	
				11A	Turbine Aeroplane Aerodynamics, Structures and Systems	
<b>"A" Aeroplanes</b>	1	Regulations	<b>A2/B1.2</b>	10	Aviation Legislation	<i>For a holder of Category "A" license to convert to A2/B1.2 license, modules 16 &amp; 17 examinations are required.</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical	

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					Fundamentals	<i>16 -Piston Engine 17 -Propeller</i>
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	3	Airframe General		8	Basic Aerodynamics	
	4	Aeroplanes		11B	Piston Aeroplane Aerodynamics, Structures and Systems	
	13	Human Factors		9A	Human Factors	
				16	Piston Engine	
				17A	Propeller	

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<b>"C" Piston Engines</b>	1	Regulations	<b>A2/B1.2</b>	10	Aviation Legislation	<i>For a holder of Category "C" Piston Engines license to convert to A2/B1.2 license, modules 8 &amp; 11 examinations are required.  11- Aeroplane Aerodynamics Structure and Systems  Module 8- Basic Aerodynamics Engines</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
	7A	Maintenance Practices				
	13	Human Factors		9A	Human Factors	
	7	Propellers		17A	Propeller	
6	Piston Engines	16	Piston Engines			

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				11B	Aeroplane Aerodynamics Structure and Systems	
				8	Basic Aerodynamics	
<b>'A' &amp; 'C' Gas Turbine Engines Rotorcraft</b>	1	Regulations	<b>A3/B1.3</b>	10	Aviation Legislation	<i>For a holder of Category "A" &amp; "C" Turbine Rotorcraft license to convert to A3/B1.3 license, NO examination is required since modules covered are compatible.</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance	

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					Practices	
	3	Airframe General		8	Basic Aerodynamics	
	8	Gas Turbine		15	Gas Turbine Engines	
	9	Rotorcraft		12	Helicopter Aerodynamics, Structures and Systems	
	13	Human Factors		9A	Human Factors	
<b>"A" &amp; "C" Piston Engines Rotorcraft</b>	1	Regulations	<b>A4/B1.4</b>	10	Aviation Legislation	<i>For a holder of Category "A" &amp; "C" Turbine Rotorcraft license to convert to A4/B1.4 license, NO examination is required since modules covered are compatible.</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument	

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					Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	6	Piston Engines		16	Piston Engines	
	9	Rotorcraft		12	Helicopter Aerodynamics, Structures and Systems	
	13	Human Factors		9A	Human Factors	
				8	Basic Aerodynamics	
<b>"A" Aeroplanes</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "A" Aeroplanes license to convert to B2 license, examination is required in the</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	

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				3	Electrical Fundamentals	<i>following modules: Module 13: Aircraft Aerodynamics, Structures and Systems  Module 14: Propulsion — avionic systems</i>
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	3	Airframe General		8	Basic Aerodynamics	
	4	Aeroplanes		13	Aircraft Aerodynamics, Structures and Systems	
	13	Human Factors		9A	Human Factors	
				14	Propulsion	

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<b>"A" &amp; "C" Piston Engines Rotorcraft</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "C" Piston Rotorcraft license to convert to B2 license, examinations are required in the following modules.  Module 13: Aircraft Aerodynamics, Structures and Systems  Module 14: Propulsion — avionic systems</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamental s	
				4	Electronic Fundamental s	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	13	Human Factors		9A	Human Factors	
9	Rotorcraft	13	Aircraft Aerodynamics			

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	6	Piston Engines			, Structures and Systems	
				8	Basic Aerodynamics	
				14	Propulsion	
<b>"A" &amp; "C" Gas Turbine Engines Rotorcraft</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "A" &amp; "C" GTE Rotorcraft license to convert to B2 license, examination is required in the following modules:  Module 13: Aircraft Aerodynamics, Structures and Systems  Module 14: Propulsion — avionic systems</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	

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				7A	Maintenance Practices	
	3	Airframe General		8	Basic Aerodynamics	
	8	Turbine Engines		14	Propulsion	
	9	Rotorcraft		13	Aircraft Aerodynamics, Structures and systems	
	13	Human Factors		9A	Human Factors	
<b>"C" Gas Turbine Engines</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "C" Gas Turbine Engines license to convert to B2 license, examination is required in the following modules:</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/	
					<i>Module 13: Aircraft Aerodynamics, Structures and</i>	

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					Electronic Instrument Systems	<i>Systems Module 14: Propulsion — avionic systems</i>
				6	Materials & Hardware	
				7A	Maintenance Practices	
	8	Turbine Engines		14	Propulsion	
	13	Human Factors		9A	Human Factors	
	7	Propellers				
				13	Aircraft Aerodynamics , Structures and Systems	
				8	Basic Aerodynamics	
<b>"X" Electrical</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "X" Electrical license to convert to B2 license, examination is</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	

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				3	Electrical Fundamentals	<i>required in the following modules:</i>  <i>Module 13:</i> <i>Aircraft Aerodynamics, Structures and Systems (Excluding 13.5- Electrical power (ATA24))</i>  <i>Module 14:</i> <i>Propulsion — avionic systems</i>
				4	Electronic Fundamentals	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	13	Human Factors		9A	Human Factors	
	21	Basic: Electrical Equipment and Systems		5	Digital Technics/ Electronic Instrument Systems	
				8	Basic Aerodynamics	
				13	Aircraft Aerodynamics, Structures and Systems	
				14	Propulsion	

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<b>'X' INSTRUMENTS</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<p><i>For a holder of Category "X" Instruments license to convert to B2 license, examination is required in the following modules:</i></p> <p><i>Module 13: Aircraft Aerodynamics, Structures and Systems (Excluding 13.8 Instrument systems (ATA31))</i></p> <p><i>Module 14: Propulsion — avionic systems</i></p>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				6	Materials & Hardware	
				7A	Maintenance Practices	
	21	Basic: Electrical Equipment and Systems	5	Digital Technics/ Electronic Instrument Systems		
	13	Human Factors	9A	Human Factors		
	23	Basic Gyroscopes and Servomechanisms				

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	22	Basic Instruments				
				8	Basic Aerodynamics	
				13	Aircraft Aerodynamics, Structures and Systems	
				14	Propulsion	
<b>"X" AUTOMATIC PILOT AEROPLANES</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "X" Automatic Aeroplanes license to convert to B2 license, examination is required in the following modules:  Module 13: Aircraft Aerodynamics, Structures and Systems (Excluding 13.3 Auto flight (ATA22))  Module 14: Propulsion —</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	

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				6	Materials & Hardware	<i>avionic systems</i>
				7A	Maintenance Practices	
	13	Human Factors		9A	Human Factors	
	25	Automatic Pilots – Common				
	23	Basic Gyroscopes and Servomechanisms				
	24	Automatic Pilots - Aeroplanes				
				14	Propulsion	
				8	Basic Aerodynamics	
				13	Aircraft Aerodynamics, Structures And Systems	
<b>“X” Autopilot Rotorcraft</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category “X” Automatic Pilot Rotorcraft license to convert to B2 license, examination is</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	

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				3	Electrical Fundamentals	<i>required in the following modules:  Module 13: Aircraft Aerodynamics, Structures and Systems (Excluding 13.3 Autoflight (ATA22))  Module 14: Propulsion — avionic systems</i>
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
				9A	Human Factors	
	13	Human Factors				
	25	Automatic Pilots – Common				
	23	Basic Gyroscopes and Servomechanisms				
	26	Automatic Pilots - Rotorcraft				

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TCAA LC	MODULES	Modules Trained	EASA PART 66	MODULES	Modules Trained	REMARKS
				14	Propulsion	
				13	Aircraft Aerodynamics, Structures and Systems	
				8	Basic Aerodynamics	
<b>"X" Compass Compensation</b>	30	Compass Compensation	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "X" Compass Compensation license to convert to B2 license, the conversion will be based on other licensed held conditions. Refer to THE CIVIL AVIATION (PERSONEL LICENSING) REGULATION 2017 Regulation 125</i>
				1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	
				4	Electronic Fundamentals	
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials &	

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TCAA LC	MODULES	Modules Trained	EASA PART 66	MODULES	Modules Trained	REMARKS
					Hardware	
				7A	Maintenance Practices	
				9A	Human Factors	
				13	Aircraft Aerodynamics, Structures and Systems	
				14	Propulsion	
				8	Basic Aerodynamics	
<b>"R" Radio Communication, Navigation &amp; Pulse systems</b>	1	Regulations	<b>B2</b>	10	Aviation Legislation	<i>For a holder of Category "R" Radio license to convert to B2 license, examination is required in the following modules:  Module 13: Aircraft Aerodynamics, Structures and Systems (Excluding 13.4 Communication and</i>
	2	Basic Engineering Practices		1	Mathematics	
				2	Physics	
				3	Electrical Fundamentals	

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TCAA LC	MODULES	Modules Trained	EASA PART 66	MODULES	Modules Trained	REMARKS
	13	Human Factors		4	Electronic Fundamentals	<i>navigation (ATA23/34))</i>  <i>Module 14: Propulsion — avionic systems</i>
				5	Digital Technics/ Electronic Instrument Systems	
				6	Materials & Hardware	
				7A	Maintenance Practices	
				9A	Human Factors	
	31	Radio Communication and Navigation				
				13	Aircraft Aerodynamics, Structures and Systems	
				14	Propulsion	
				8	Basic Aerodynamics	

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