



ROMANIAN EXPERIENCE WITH Aeronautical personnel MEDICAL CERTIFICATION SOFTWARE

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Relevant requirements:




- ▶ **Regulation EU 1178/ 2011 - MED.A.025 Obligations of AeMC, AME, GMP and OHMP**
- (a) When conducting medical examinations and/or assessments, AeMC, AME, GMP and OHMP shall:
 - (1) ensure that communication with the person can be established without language barriers;
 - (2) make the person aware of the consequences of providing incomplete, inaccurate or false statements on their medical history.
- (b) After completion of the aero-medical examinations and/or assessment, the AeMC, AME, GMP and OHMP shall:
 - (1) advise the person whether fit, unfit or referred to the licensing authority, AeMC or AME as applicable;
 - (2) inform the person of any limitation that may restrict flight training or the privileges of the licence, or cabin crew attestation as applicable;
 - (3) if the person has been assessed as unfit, inform him/her of his/her right of a secondary review; and
 - (4) in the case of applicants for a medical certificate, submit without delay a signed, or electronically authenticated, report to include the assessment result and a copy of the medical certificate to the licensing authority.
- (c) AeMCs, AMEs, GMPs and OHMPs shall maintain records with details of medical examinations and assessments performed in accordance with this Part and their results in accordance with national legislation.
- (d) When required for medical certification and/or oversight functions, AeMCs, AMEs, GMPs and OHMP shall submit to the medical assessor of the competent authority upon request all aero-medical records and reports, and any other relevant


▶ ARA.MED.150 Record-keeping

- ▶ (a) In addition to the records required in ARA.GEN.220, the competent authority shall include in its system of record-keeping details of aero-medical examinations and assessments submitted by AMEs, AeMCs or GMPs.
- ▶ (b) All aero-medical records of licence holders shall be kept for a minimum period of 10 years after the expiry of their last medical certificate.
- ▶ (c) For the purpose of aero-medical assessments and standardisation, aero-medical records shall be made available after written consent of the applicant/licence holder to:
 - ▶ (1) an AeMC, AME or GMP for the purpose of completion of an aero-medical assessment;
 - ▶ (2) a medical review board that may be established by the competent authority for secondary review of borderline cases;
 - ▶ (3) relevant medical specialists for the purpose of completion of an aero-medical assessment;
 - ▶ (4) the medical assessor of the competent authority of another Member State for the purpose of cooperative oversight;
 - ▶ (5) the applicant/licence holder concerned upon their written request; and
 - ▶ (6) after disidentification of the applicant/licence holder to the Agency for standardisation purposes.
- ▶ (d) The competent authority may make aero-medical records available for other purposes than those mentioned in (c) in accordance with Directive 95/46/EC as implemented under national law.
- ▶ (e) The competent authority shall maintain lists:
 - ▶ (1) of all AMEs that hold a valid certificate issued by that authority; and
 - ▶ (2) where applicable, of all GMPs acting as AMEs on their territory.

These lists shall be disclosed to other Member States and the Agency upon request.

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- ▶ **ARA.MED.315 Review of examination reports**

 - ▶ The licensing authority shall have a process in place to:
 - ▶ (a) review examination and assessment reports received from the AeMCs, AMEs and GMPs and inform them of any inconsistencies, mistakes or errors made in the assessment process; and
 - ▶ (b) assist AMEs and AeMCs on their request regarding their decision on aero-medical fitness in contentious cases.

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- ▶ CAA-Ro put out a tender in 2013 for developing a software that could make easier the compliance with the requirements and also solve some safety problems like fraud attempts (forgery od medical shopping)
 - ▶ Requirements:
 - ▶ Encryption of data
 - ▶ Access for AME to all data in read only mode
 - ▶ Data submitted to be changed only by the Medical Assessor
 - ▶ If a medical is in progress, no new visit can be added

Short presentation of EPA

The web application entitled "Aviation Personnel Records " is a powerful tool which offers users the possibility to manage their lists of clients in a simple and efficient manner and to issue medical certificates for classes 1, 2, 3, LAPL and cabin crew based on the medical documents associated with each client.

The program provides a wide range of features designed to considerably reduce the workload of authorized medical examiners who use the application. The most significant features worth mentioning are:

- users can define and use different types of classifications such as: Airlines, Aircrafts, Positions, Professional limitations and States;
- the application provides the possibility to create a list of clients which contains useful information grouped in the following categories: identification data, contact data, physical traits and professional information; moreover, the users of the application can add new clients to the list, edit the information available for an existing client or remove clients from the list;
- authorized medical examiners who use the application in their daily professional activity are provided with the means to efficiently manage the medical visits made by the aviation personnel; due to the program's friendly and easy to use interface, which is based especially on the use of predefined lists and checkboxes, the amount of time necessary to issue a medical certificate for a client is considerably reduced;
- it can generate examination reports and application forms for medical certificates (depending on the class the client belongs to);
- it allows users to filter information contained in the clients database using a multi-criteria form;
- users have access to various types of statistical reports and charts that show information about the medical visits made by clients in a selected period of time; the information presented in reports can be easily filtered using the following fields: the period of time in which the medical visits were made, the authorized medical examiner who performed the medical consultation, the company at which the client works and the class to which the requested medical certificate belongs;
- with the help of this program, it is as easy as the click of a button to access the medical history of any person of interest that exists in the list of clients; due to the fact that the list of clients with all the available information is visible to all the users of the program, any user can see the medical visits of a selected client in chronological order with all the medical documents attached to them (application form for medical certificate, examination report, ENT examination report, ophthalmic examination report, medical certificate issued);
- due to the fact that the personal and professional information of the users and the clients is highly sensitive and, therefore, it should remain confidential, the application uses a wide range of methods to protect the data from unauthorized access; the first security measure taken is represented by the use of user accounts protected by password; another way to prevent unauthorized access to data is the use of roles which are associated to users by the administrator of the program; by using roles, we make sure users have access only to the pieces of information that were intended for them;
- last but not least, the use of this application doesn't generate high costs for end-users due to a number of reasons: it uses a free database provided by Microsoft; it doesn't require significant hardware resources, being opened in a simple web browser and it is easy to install and maintain;



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User logged in: Demo  

Personal data

Surname: PIN:
*
Father Initial: Place of birth:
First name: Date of birth:
Previous names: Nationality:

Contact data

Address:
State:
Phone:
Email:

Personal features

Height:
*
Eyes colour:
*
Hair colour:
Gender:

Other information

Position:
Company:
Aircraft:
Class:
Picture: Browse...

Search

Add

Clear fields

Application form for medical certificate - Class 1/2/LAPL

(1) The issuing state of the license:		(No item selected)	(12) Application:		(No item selected)
(11) Mailing address (if different)			(11) State:		(No item selected)
(13) Reference number:			(11) Phone number:		0754065247
(17) Date of last medical examination:			(14) Requested license type:		
(18) Type of license held:			(17) Place of last medical examination:		
(19) Restrictions:		<input type="checkbox"/> AHL <input type="checkbox"/> RXO <input type="checkbox"/> APL <input type="checkbox"/> SIC <input type="checkbox"/> CCL <input type="checkbox"/> SSL	(18) License number:		
(20) Medical certificate refused / suspended / revoked by a licensing authority ?		<input type="checkbox"/>	(20) Date:		
(20) Details:			(20) State:		(No item selected)
(21) Total flight hours :			(22) Flight hours since the last medical examination :		
(24) Any reported accidents/incidents since the last medical examination?		<input type="checkbox"/>	(24) Date:		
(24) Details:			(24) Place:		
(25) Intended type of flight:		(No item selected)	(26) Current flight activity:		(No item selected)
(27) Does he drink?		<input type="checkbox"/>	(27) Issuing state:		
(28) Is currently using a medication?		<input type="checkbox"/>	(28) Details:		
(29) Does he smoke?		<input type="checkbox"/>	(29) Type and quantity:		
(29) No, never		<input type="checkbox"/>	(29) If he doesn't smoke anymore, since when?		
(30) Remarks:					
(101) Family medical history		<input type="checkbox"/>	(112) Disorders of the nose, throat or speech :		<input type="checkbox"/>
(102) Glasses and / or contact lenses worn :		<input type="checkbox"/>	(113) Head injury / concussion :		<input type="checkbox"/>
			(123) Malaria and other tropical diseases :		<input type="checkbox"/>
			(124) HIV test:		<input type="checkbox"/>
Antecedente in familie (170) Heart diseases: <input type="checkbox"/> (171) Hypertension: <input type="checkbox"/>					



Back

New form

Form type (No item selected)

Add

Form type

CER_Certificat_Medical_Clasa1/2/LAPL

RE_Clasa1/2/3

ROMANIAN CIVIL AERONAUTICAL AUTHORITY

APPLICATION FORM FOR A MEDICAL CERTIFICATE


MEDICAL IN CONFIDENCE

(1) State of license issue:	(2) Medical certificate applied for:	1 <input type="checkbox"/> 2 <input type="checkbox"/> LAPL <input type="checkbox"/>
(3) Surname:	(4) Previous surname(s):	(12) Application: Initial <input type="checkbox"/> Revalidation/ Renewal <input type="checkbox"/>
(5) Forename:	(6) Date of birth: (dd-mm-yyyy)	(7) Sex: M <input type="checkbox"/> F <input type="checkbox"/>
(8) Place and country of birth:	(9) Nationality:	(13) Reference number:
(10) Permanent address:	(11) Postal address (if different):	(14) Type of licence applied for:
Country: Telephone No.: Mobile No.: E-mail:	Country: Telephone No.:	(15) Occupation (principal): (16) Employer: (17) Last medical examination Date: Place:
(18) License(s) held (type): License number: State of issue:	(19) Any limitations on license(s)-medical certificate held No <input type="checkbox"/> Yes <input type="checkbox"/> Details:	
(20) Have you ever had a medical certificate denied, suspended or revoked by any licensing authority? No <input type="checkbox"/> Yes <input type="checkbox"/> Date: Country: Details:	(21) Flight time total:	(22) Flight time since last medical:
(24) Any aviation accident or reported incident since last medical examination? No <input type="checkbox"/> Yes <input type="checkbox"/> Date: Place: Details:	(23) Aircraft class type(s) presently flown:	
(27) Do you drink alcohol? No <input type="checkbox"/> Yes <input type="checkbox"/> Amount:	(25) Type of flying intended:	
(28) Do you smoke tobacco? No, never <input type="checkbox"/> No <input type="checkbox"/> date stopped: <input type="checkbox"/> Yes state type and amount:	(26) Present flying activity: Single pilot <input type="checkbox"/> Multi pilot <input type="checkbox"/>	
(28) Do you currently use any medication? No <input type="checkbox"/> Yes <input type="checkbox"/> State medication, dose, date started and why:		


General and medical history: Do you have, or have you ever had, any of the following? (Please tick). If yes, give details in remarks section (30).

Yes		No		Yes		No		Yes		No	
100	Eye trouble/eye operation			112	Noise, tinnitus or speech disorder			120	Malaria or other tropical disease		
102	Spectacles and/or contact lenses ever worn			113	Head injury or concussion			124	A positive HIV test		
				114	Frequent or severe headaches			125	Sexually transmitted disease		
103	Spectacle contact lens prescriptions			115	Dizziness or fainting spells			126	Deep disordered apnoea syndrome		
								127	Heart disease		
								128	High blood pressure		
								129	High cholesterol level		
								130	Epilepsy		

There are 3 possible statuses: fit/ unfit/ in progress
 “In progress” status does not allow a new visit to started



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[Classifications](#)
[Users](#)
[Contact](#)
User logged in: Demo



PANAIT G IONUT

Personal identification number:	1800831425601	Place of birth:	ROMANIA/ BUCURESTI	Date of birth:	31.08.1980
Nationality:	ROMANA	State:	ROMANIA	Phone number:	1560968516
Email:	skdfjnsdkf@nsl.com	Height:	175	Eye colour:	CAPRUI
Hair colour:	CALVITIE	Gender:	M	Position:	PILOT
Company:	-----	Aircraft:	A 380	Class:	Class 1







New visit

Doctor: DEMO Certificate: * (No item sele)

Visit date: 29.11.2015 Expires on:


Price: 0 Observations:

Add

Edit	Forms	Certificate type	Status	Visit date	Expiration date	Price	Doctor	Observations	Printed	Certificate	Attachment
		CabinCrew	In Progress	15.05.2014	15.05.2015		BALOESCU ALEXANDRINA		<input type="checkbox"/>		
		Class3	Fit	15.05.2014	15.05.2015		BALOESCU ALEXANDRINA		<input checked="" type="checkbox"/>		
		Class1	Unfit	15.05.2014	15.05.2015		PANAIT CRISTIAN IONUT		<input checked="" type="checkbox"/>		

Benefits

- ▶ The number of attempts of cheating discovered during the review of medical files has gone to minimum- from 8 discovered 2011-2013 to 0 discovered in 2014-2015
- ▶ The number of mistakes in filling the reports and issuing the medical certificates has decreased by 80% from a average of 25 mistakes in the medical certificates per year to only 5 mistakes in 2014.
- ▶ The traceability of records has become a lot easier to maintain.
- ▶ The amount of workload for the Medical Assessors has decreased.

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- ▶ What should be the next step?
 - ▶ As you all know a pan European database of medical certificates was requested by all participant to the MEG meetings.
 - ▶ European Data Repository might become a real tool we could use in order to put in another protective layer.



Thank you