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WORKING PAPER

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**Tenth North American, Central American and Caribbean Directors of Civil Aviation Meeting
(NACC/DCA/10)**

Martinique, France, 21 to 23 June 2022

**Agenda Item 5: NAM/CAR Regional Safety/Air Navigation Implementation
5.2 Safety Implementation Matters**

PROPOSAL FOR CONTRIBUTION TO THE NAM/CAR/CATC/WG WORK PROGRAMME

(Presented by France)

EXECUTIVE SUMMARY

Ecole Nationale de l'Aviation Civile (ENAC) is an internationally recognised French public academic institution providing aviation training and expertise worldwide to several institutions, CAAs and companies. ENAC offers one single stop for training all categories of civil aviation professionals.

In the frame of the NAM/CAR Civil Aviation Training Centres Working Group (NAM/CAR/CATC/WG), ENAC proposes to contribute to the work program by addressing with the WG the following two objectives: a) to determine the gap between current and future training demand and b) to establish a plan to meet the training needs based on a regional approach.

In addition, ENAC offers a wide range of advanced master programs, in France or abroad. These postgraduate programs are well adapted to address the needs of professionals seeking to expand or update their skills. In particular, ENAC has developed the advanced master in aviation safety management in partnership with ICAO. Such a program, that aims to improve the safety level of the aviation industry, could be implemented in the region.

Action:	The NACC/DCA is invited to: a) note the contents of this paper b) confirm if ENAC's proposal for regional cooperation is relevant c) and provide feedback on interest of developing an advanced master in the region, in terms of need and opportunity
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">This working paper relates to all Strategic Objectives
<i>References:</i>	<ul style="list-style-type: none">NAM/CAR/CATC/WG work program

1. INTRODUCTION

1.1 Founded in 1949, Ecole Nationale de l'Aviation Civile (ENAC) is a public university and training centre under the supervision of the French Ministry for Ecological Transition and reporting to the civil aviation authority (DGAC) for which it trains most of its personnel.

1.2 It provides aviation training and expertise to a large number of institutions, European and international CAAs, as well as companies, in a wide range of fields such as flight operations, flight and instructor training, operation of aircraft systems, airports, aviation safety and security, human factors, navigation, aeronautical English.

1.2 ONE SINGLE STOP FOR TRAINING ALL CATEGORIES OF CIVIL AVIATION PROFESSIONALS

1.2.1 ENAC is a unique model offering one single stop for training all categories of civil aviation professionals. This allows to enforce synergy amongst the different technical domains and to address the complete civil aviation system.

1.2.2 As a flight school, ENAC has trained aircraft pilots for more than 60 years and is an approved Flight Training Organisation according to European regulations. ENAC has developed training programs for International pilots and has contracted with several international airlines. Aside from ab-initio training, ENAC trains instructors and operates a training aviation fleet of more than 100 airplanes and several simulators.

1.2.3 As an aviation academy, ENAC provides initial training and continuing education for all of the French civil aviation authority (DGAC) operational personnel (in particular Air Traffic Controllers, Air Traffic Safety Electronics Personnel), as well as for external or international partners, in full compliance with the European and international training requirements. ENAC uses a wide range and number of ATC simulators.

1.2.4 Finally, as an aviation university, ENAC provides a comprehensive range of higher education programs ranging from Master of Science (MSc) to Advanced Master, as well as Ph.Ds. Several programs have been implemented abroad.

1.3 INTERNATIONAL COOPERATION

1.3.1 ENAC is a recognised partner of ICAO, in particular a Corporate Partner of the ICAO Trainer Plus program, and is a provider of training solutions in the frame of the EU technical assistance program managed by EASA.

1.3.2 ENAC is also implementing all the training activities of the recurrent annual international cooperation training program managed and funded by the French civil aviation authority (DGAC) for the benefit of states in the scope of the technical arrangement between ICAO and the ministry of ecology transition of France represented by DGAC. Those training programmes for aviation personnel from developing countries are in line with the “No country left behind” initiative.

2 PROPOSAL FOR REGIONAL COOPERATION

2.1 ENAC has joined mid 2020 the NAM/CAR Civil Aviation Training Centres Working Group (NAM/CAR/CATC/WG) with the quality of observer. ENAC, as French DGAC's partner for aviation training, wishes to develop cooperation activities in the NAM/CAR region. In reference to the NAM/CAR/CATC/WG work program, two objectives have been identified for which ENAC proposes a possible contribution. This proposal is detailed in the following paragraphs.

2.2 CONTRIBUTION TO OBJECTIVE "DETERMINE THE GAP BETWEEN CURRENT AND FUTURE TRAINING DEMAND AND OFFER"

2.2.1. ENAC, in collaboration with French DGAC, proposes to work with other regional training centres and ICAO regional office to define a list of courses whose demand is not covered. Based on ENAC capacity, a gap analysis would then be conducted and a sublist of courses which could be provided by ENAC will be established.

2.3 CONTRIBUTION TO OBJECTIVE "ESTABLISH A PLAN TO MEET THE CURRENT AND FUTURE TRAINING NEEDS BASED ON A REGIONAL/INTERNATIONAL APPROACH"

2.3.1 From the sublist established as the outcome of the first contribution presented in the previous paragraph, ENAC proposes to work with other regional training centres and ICAO regional office to prioritize and set up an implementation plan. ENAC proposes to cooperate with French DGAC and its local office in Martinique to implement the plan locally in the region, possibly in Martinique, or to develop online capability. The objective is to ease access to the courses for the benefit of interested regional states and to minimize mobility burdens.

2.3.2 The plan could be recurrent and updated annually.

2.3.3 In the framework of ENAC – French DGAC collaboration, part of this plan could be included into the French DGAC international cooperation training program, with possibility of financing.

3 INFORMATION ON INTERNATIONAL ADVANCED MASTER ON AVIATION SAFETY MANAGEMENT

3.1 Among the different types of training which ENAC is providing, ENAC offers a wide range of advanced master programs or "mastère spécialisé". This postgraduate program type is accredited by the French prestigious "Conférence des Grandes Ecoles" (CGE) and so recognized by the French State. ENAC performs 8 advanced master programs on its campus in France and has implemented several programs abroad, for example in Brazil, Africa (Cote d'Ivoire), Middle East (UAE, Qatar) and Asia (China, India, Vietnam, Indonesia, Philippines).

3.2 Advanced masters are particularly well adapted to address the needs of professionals seeking to expand or update their skills. They are recognized by the industry internationally and are fitted to be implemented on site, usually on a part time basis.

3.3 In particular, ENAC has developed the advanced master in aviation safety management in partnership with ICAO. This program has been performed on site in different countries. One of its main objectives is to give the participants a strong safety culture and have them becoming aware of the safety issues not only in their organization, but also in the related environment. The participants will be given the necessary knowledge about ICAO requirements stated in the annex 19 and the regulatory framework and practical tools to implement a SSP (State Safety Program) or a SMS (Safety Management System) in their organization. Each topic is associated with case studies making this program also very operational.

3.4 With the support of French DGAC and other institutional or industrial partners, ENAC could rapidly study the implementation of such an advanced master in aviation safety management in the region, in partnership with local training or academic institutions, to improve the safety level of the aviation industry. The program can be taught partly online.

4 ACTIONS

4.1 The NACC/DCA is invited to:

- a) note the contents of this paper
- b) confirm if ENAC's proposal for regional cooperation is relevant
- c) and provide feedback on interest of developing an advanced master in the region, in terms of need and opportunity