*Status: 08/05/2014*

# Workshop on Education and Training Needs for Aviation Engineers and Researchers in Europe

## 13th June 2014
## at the European Commission, Room COV2 19-SDR1
## Covent Garden Building, Place Rogier 16, 1210 Brussels

### *Background:*

The **European Vision for Aviation 'Flightpath 2050'** recognised the quality and availability of skilled labour as a critical driver for the sector competitiveness, calling for a situation where: "Courses offered by European Universities closely match the needs of the Aviation Industry, its research establishments and administrations and evolve continuously as those needs develop".

The **Strategic Research & Innovation Agenda (SRIA)** has a dedicated chapter on education and workforce, which was developed by the ACARE Working Group #5 "Prioritising research testing capabilities and education". It identified the adaptation of the curricula to the Aviation sector needs, as well as the attractiveness and harmonization of the curricula content, as essential enablers to enhance the quality and availability of the Aviation workforce.

The workshop is organised by this ACARE Working Group together with the European Commission and the EU-funded action AirTN NextGen.

### *Workshop Objectives:*

- discuss about the skill needs and possible shortages of engineering workforce in the Aviation sector
- discuss about methodologies used to analyse the skill needs
- discuss ways of improving the quality of engineers education and matching the workforce supply to the needs of the aviation sector

### *Participants*

- Human resources or engineering managers from aeronautics industry, research institutions, aviation operators and regulators
- Representatives of higher education in aviation and accreditation bodies
- Member States and European Commission representatives

### *Expected Outcome*

A representative sampling of workforce skill needs and potential present/future shortages in the aviation sector will be identified; best practices will be shared in terms of methods to identify the skill needs, to adapt and harmonise the Aviation curricula and make them more effective and attractive. These outputs will be taken up further by the forthcoming EU action[1] dedicated to improving the skills base in European aviation.

### *Contacts:*

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[1] Horizon 2020, Work programme 2014-2015, Challenge " Smart, green and integrated transport", topic MG.1.6

# Draft Workshop Programme

## *13th June 2014*

**9h15** **Registration and Welcome Coffee**

**9h30** **Opening Session**

**Welcome** by *Tiit Jurimae, Head of Aviation Unit, DG Research & Innovation, European Commission*

K**eynote Address** by *Hester Bijl, Dean Aerospace, TU Delft, Co-Chair ACARE WG 5*

**9h55** **Session 1: Workforce and Skill Needs in Aeronautics**

Chairman: *Rolf Henke, Member of the Board of DLR, Co-Chair ACARE WG5*

**Industrial requirements for future engineers**
*N. N., Airbus (tbc)*

**The needs for future engineers in the supply chain**
*Isabelle Dubois, HR Director for the Engineering Direction, SNECMA*

**Research Establishments needs for skills and qualification**
*Josef Kašpar, General Director VZLU, Chairman EREA*

***Discussion:***
*In the aeronautics sector,*
*- what are the skills which are not sufficiently covered in the curricula?*
*- Are there shortages globally or for specific skills, now and in the future?*

**11h10** **Coffee Break**

**11h30** **Session 2: Workforce and Skill Needs in Air Transport and Safety**

Chairman: *Antonin Kazda, University of Zilina, AirTN-NextGen*

**Workforce needs of Airlines**
*Maarten Stienen, VP Industrial Relations & Strategic HR, KLM Dutch Airlines*

**The specific skill needs in ATM and the Eurocontrol workforce projections for the future**
*Conrad Cleasby, Principal Advisor to the Director of Resources, Eurocontrol*

**The specific skill needs of a SME active in Human Factors and Safety**
*Linda Napoletano, Human Factors and Validation consultant, Deep Blue*

*Discussion:*
*In the air transport sector*
*- what are the skills which are not sufficiently covered in the curricula?*
*- Are there shortages globally or for specific skills, now and in the future?*

**12h45** **Lunch Break**

**13h45** **Session 3: How the cooperation with industry can contribute to enhance the curricula and support aviation sector development**

Chairman: *David Marshall, Royal Aeronautical Society, Past Chairman CEAS*

**Transforming Podkarpacie Province into Aviation Valley based on a comprehensive system of education**
*Marek Darecki, Chairman of Aviation Valley, Poland*

**The methods used and the workforce needs identified in the Aerospace sector at national level**
*Sameer Savani, ADS, (tbc.)*

**Cooperation between Universities and Industry for curricula adaptation and enhancement with traineeships**
*Manfred Hajek, Prof. TU Munich, Managing Director, Munich Aerospace e.V.*

**Competences matrices as a tool to map employers' needs and curricula offer – an example from the Space sector**
*David Robinson, Psi-tran Ltd.*

**Knowledge Alliances: transnational partnerships between higher education and business**
*Peter Baur, Deputy Head of Higher Education Unit, DG Education & Culture*

**15h00** **Coffee Break**

**15h30** **Session 4: How to better respond to the needs of the sector**

***Scene Setter Intervention:***
*Rolf Henke, Member of the Board of DLR, Co-chair ACARE WG5*

***Panel Discussion***
*Moderator: Hester Bijl, Co-chair ACARE WG5*

*- Member States representative (tbc.)*
*- University representative (tbc.)*
*- David Robinson, Psi-tran Ltd*
*- Marek Darecki, Chairman of Aviation Valley*
*- Peter Baur, Deputy Head of Higher Education Unit, DG Education & Culture, EC*

**Questions to be addressed:**

- *What are the best practices to identify the new skill needs?*
- *How to respond to the new or insufficiently covered skill needs?*
- *How can new teaching methods contribute to enhance the curricula?*
- *How can dual study programmes (including internship, apprenticeship) improve the employability of the graduates?*

**16h45** **Closing statement**

*Hester Bijl, Co-chair ACARE WG5*

**17h00** **Workshop closure**