

**Ingenuity  
in Flight.**



## Bombardier MSG-3 Collaboration with Western Michigan University

AAB Internal Annual Meeting  
July 20, 2017

Peter Osborne – Manager, Maintenance Programs

# Proposed Agenda for WMU Meeting

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- **Introductions**
- **MSG-3 Training Background**
- **Review of current MSG-3 Training Material**
- **Opportunities**

# Introduction

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*Peter Osborne is the Manager of Maintenance Engineering for Bombardier Aerospace, based in Downsview, Ontario, Canada. Peter has 38 years of aviation experience, primarily in manufacturing.*

*My team develops maintenance programs for all Bombardier commercial aircraft using MSG-3 methodology, defines and creates maintenance evolution/optimization requirements and works closely with American, Canadian and international regulatory authorities. I served as co-chair of the Industry Steering committee (ISC) for the Q400, CRJ700/900/1000 and currently co-chair of the ISC for the Cseries programs.*

*I chaired the Airlines for America International Maintenance Program Industry Group (MPIG) for 3 years and has been a member since 2006, as well as being a participant in the International Maintenance Review Board Policy Board (IMRBPB) since 2006.”*

# Purpose of Visit

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- Bombardier is looking to collaborate with an academic institution in order to receive accreditation for our Maintenance Steering Group – 3 (MSG-3) training course
- Currently, Bombardier hosts four training sessions per year at various locations around the globe
- The training is held in a classroom setting, and covers four days (32 hours) of instructional material with multiple workshops over the four days
- Bombardier believes that the instructional material can be taught at an academic institution, and would be a valuable asset to an aircraft maintenance/engineering syllabus

# Maintenance Steering Group (MSG-3) Background Information

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- MSG began development in the late 60s
- It employs decision logic to develop scheduled maintenance
- The methodology has a task-oriented approach to maintenance that analyzes failure modes using a top down approach
- The overall goal of MSG-3 is to perform the “right maintenance at the right time”

# Bombardier Ask

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- Bombardier would like to partner with Western Michigan University
- **Bombardier will**
  - Work with Western Michigan University to produce training course accredited through the WMU that Bombardier could offer as a part of our training program
  - Lecture MSG-3 to students at WMU, or train a lecturer on WMU Staff to train MSG-3 in exchange for an annual training fee
- **WMU will**
  - Have a world leading aircraft manufacturing partner in the field of aircraft maintenance
  - Have the ability to offer a dedicated and unique class in aircraft maintenance program development
  - Have graduates that are fully versed in maintenance programs providing more attractive opportunities for careers in aviation

Bombardier would like to offer MSG-3 training on-line and would support efforts by WMU to do so

# Opportunities

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## **MSG-3 Training – On Line Training**

- WMU develop an on Line training program and Bombardier endorse the content
- WMU to host training
- Bombardier to market WMU on-line training on its websites and through face to face meetings ie -conferences, etc.

## **MSG-3 Intellectual Property**

- MSG-3 course material and course are the sole intellectual property of Bombardier
- Accreditation of the course material is the sole property of WMU



Q&A

QUESTIONS  
AND ANSWERS



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