Transport Category Airplane Emergency Evacuation Demonstration and Analysis (AERO0580)
Instructor: Jose Mora-Vargas

Course Description
This course provides basic knowledge of FAA/EASA regulations, advisory material and development of emergency evacuation test plans/analyses for specific cabin interior layouts. Current analysis methodology is described, and the basic foundation to develop simulation models is presented. Students will conduct emergency evacuation analyses for two cabin interior configurations. A background in crashworthiness and cabin safety is desirable.

Who Should Attend?
Airframe manufacturers, transport category aircraft completion center personnel and cabin safety/crashworthiness designees. This course would also be beneficial for independent cabin safety consultants and cabin interior arrangement specialists.

Learning Objectives
Upon completion of this course, participants will be able to:
- Demonstrate knowledge of current FAA/EASA requirements to conduct emergency evacuation demonstrations
- Provide guidance to develop emergency evacuation methodology
- Prepare emergency evacuation test plans and reports
- Develop, review and approve emergency evacuation analyses compliance reports.

Course Outline

Day 1
- Emergency Evacuation Requirements Historical background
  - Operational Regulations
  - Airworthiness Regulations
- Detailed Review of Regulations and Advisory Material
- NTSB Review of Emergency Evacuation
- Knowledge Test
Day 2
• Evacuation Requirements for “commercial” and “private, not-for-hire” operations
• Exemptions from Emergency Evacuation Rules
• Use of SFAR 109 (Special Federal Aviation Regulation)
• Evacuation Demonstration Timeline in a Typical Certification Process
• Knowledge Test

Day 3
• Use of Evacuation Analysis as Acceptable Means of Compliance
• Emergency Evacuation Simulation Models
• Knowledge Test
• Group Exercise for Evacuation Analysis (airliner)

Day 4
• Group Exercise for Evacuation Analysis (airliner)(Cont’d)
• Group Exercise for Evacuation Analysis (private VIP aircraft)
• General Review of Subject Matter
• Q&A session
• Final Evaluation

Classroom hours / CEUs
28.00 classroom hours
2.8 CEUs

Certificate Track
This course is not part of a certificate track.

Course Fees
Early registration course fee: $2,195 if you register and pay by the early registration deadline (45 days out).

Regular registration course fee: $2,395 if you register and pay after the early registration deadline.

Instructor Bio

Jose Mora-Vargas currently works as an independent consultant for companies holding delegated organization status. He retired in November, 2017 as the Lead ODA Administrator at Associated Air Center, a Standard Aero Completion Center located in Dallas, Texas. For several years, he has been an FAA designee, initially as a DER. Since 1976, he has worked for several OEMs, including Embraer, Bombardier, General Dynamics, Honda Aircraft, and Associated Air Center. During his professional career, he held positions as Program Manager, FAA Designee, Certification Engineer, DAS/ODA Administrator, and Certification Director. He has a MSc degree
in Mechanical Engineering from Instituto Tecnologico de Aeronautica (ITA) from Brazil, and a MSc degree in Business/Management Aeronautical Sciences from Embry-Riddle University (Florida).

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