Fundamental Avionics
Instructors: Albert Helfrick, Brian Butka *(This course may be taught one or both instructors.)*

**OVERLAND PARK, KANSAS**
June 6–10, 2016
Monday–Thursday, 8:00 a.m.–4:00 p.m. and Friday, 8:00 a.m.–2:45 p.m.
Course Number AA161430

**ORLANDO, FLORIDA**
November 14–18, 2016
Monday–Thursday, 8:00 a.m.–4:00 p.m. and Friday, 8:00 a.m.–2:45 p.m.
Course Number AA171290

**CEUS**
33.75 classroom hours
3.75 CEUs

**COST**  $2,495
Includes instruction, course materials, refreshments and lunches.

**EARN A CERTIFICATE**
This course is part of the Certificate of Specialization in Avionics and Avionic Components.

**Description**
This course provides a very broad overview of avionics. It covers the evolution of the avionics industry and usage to provide the student with an understanding of WHY avionics is what it is today, in addition to understanding how it works. The course covers legacy systems still in use and the latest state-of-the-art systems currently being installed.

The avionics environment is an important part of this course. In the context of this course, “environment” refers not only to the physical environment of pressure, temperature, vibration, etc., but the regulatory environment.

Systems are an important part of this course, and system communications and assessment are covered.

This course introduces the student to the unique language of avionics (abbreviations, terms and acronyms) and connects these terms to the systems they represent.

**Highlights**
- A very comprehensive overview of avionics from the early years to the present
- Covers the fundamentals of navigation, communications and surveillance
- Explains the roles of world-wide regulatory and advisory groups
- Introduces future systems currently under development and equipage
- Special emphasis on satellite-based navigation; the backbone of future navigation and surveillance
- Covers safety assessment and human factors as associated with avionics systems

**Who should attend?**
This course is for engineers and technicians who are involved with avionics but may not have attended formal courses in avionics. It would also suit those who work in a specific area of avionics and who would benefit from learning the latest developments in areas outside of their discipline or a brush-up on basics.

“I came all the way from Nigeria to attend the Fundamental Avionics course. The organizational planning and delivery of the course was of high standard. The instructor’s technique in presentation, using his professional and technical know-how and good sense of humor made the course interesting.”

—Chris Ejimofo, Bristow Helicopters, Nigerian Operations