



# AEROSPACE SHORT COURSES

**SPRING 2022 - SPRING 2023**

**KU**

LIFELONG  
& PROFESSIONAL  
EDUCATION

The University of Kansas

**INSIDE YOU'LL FIND**

New course schedules

Certificates of Specialization

In-person and online opportunities



# ORGANIZATIONS TRUST KU AEROSPACE SHORT COURSES

For more than 40 years, aerospace organizations have looked to the University of Kansas Aerospace Short Course Program to deliver high-quality training. Now that same high-quality training can be delivered in-person or online. Contact us today to find out how you and your team can benefit from training delivered directly to your organization:

- 50+ courses available
- Flexible scheduling
- Customizable content
- Competitive pricing
- No employee travel
- Online and in-person

**Do you have questions about bringing a course to your organization? Reach out to us today for a no-cost, no-obligation proposal. Contact Marina Enclarde at 913-897-8781 or email [professionalprograms@ku.edu](mailto:professionalprograms@ku.edu).**

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[aeroshortcourses.ku.edu](http://aeroshortcourses.ku.edu)

## AVAILABLE ONLINE COURSES

Advance your knowledge, skills and career from wherever you are.

We're actively developing new online learning opportunities so you can continue meeting your professional development goals. Now you can take advantage of high-quality and engaging live online Aerospace Short Courses – our highest-demand topics from instructors working in industry and academia. Visit our Online Learning page at [LPE.ku.edu/aero-online-courses](https://lpe.ku.edu/aero-online-courses) for complete details.



### Upcoming open enrollment online classes:

- **April 11, 2022** - Fundamentals of V/STOL Rotorcraft
- **June 6, 2022** - Instructions for Continued Airworthiness Using Enhanced Zonal Analysis Procedure
- **July 11, 2022** - Fundamental Avionics
- **August 2, 2022** - High Intensity Radiated Fields (HIRF) Certification and Compliance



Visit [LPE.ku.edu/aero-online-courses](https://lpe.ku.edu/aero-online-courses) for more information on upcoming online classes.

## HISTORY OF AIRPLANE DESIGN WEBINAR SERIES **FREE for all participants!**

with Dr. Jan Roskam



Join Dr. Jan Roskam for the History of Airplane Design webinar series, profiling top aircraft design and production companies. Dr. Roskam is a distinguished expert in the field of aerospace engineering, world-renowned for his work in design. He is the founder of the KU Aerospace Short Course Program, and the Ackers Distinguished Professor Emeritus of Aerospace Engineering, University of Kansas. Visit [LPE.ku.edu/aero-online](https://lpe.ku.edu/aero-online) to register.

### Overview of Unusual Airplane Configurations, Part 1

March 16, 2022 • 11:00 a.m. – Noon CT

### Overview of Unusual Airplane Configurations, Part II

April 20, 2022 • 11:00 a.m. – Noon CT

### The Beginning, Rise and Decline of the Wichita, Kansas Aircraft Industry

May 18, 2022 • 11:00 a.m. – Noon CT

### Airplane Designs That Did Not Make It and WHY

June 15, 2022 • 11:00 a.m. – Noon CT

### Airplane Design Lessons Learned the Hard Way

July 20, 2022 • 11:00 a.m. – Noon CT

**We offer free recordings of past webinars on our website at [LPE.ku.edu/aero-online](https://lpe.ku.edu/aero-online). Stay tuned for more webinars coming this spring.**

# UPCOMING PUBLIC COURSES BY DATE AND LOCATION

**SEATTLE, WASHINGTON | MARCH 28 – APRIL 1, 2022**

**DoubleTree Suites by Hilton Hotel Seattle Airport Southcenter | [LPE.ku.edu/aero-seattle](http://LPE.ku.edu/aero-seattle)**

MONDAY 3/28	TUESDAY 3/29	WEDNESDAY 3/30	THURSDAY 3/31	FRIDAY 4/1
Aerodynamic Design of Commercial Airplanes				
Aircraft Structural Loads: Criteria, Analysis, and Validation				
Electrical Wiring Interconnection System (EWIS) and FAA Requirements				
FAA Aircraft Certification and Airworthiness Approvals				
Flight Test Principles and Practices				
Introduction to Electromagnetic Effects and Aircraft Engineering Requirements				
Stress Analysis for Aerospace Structures				
Structural Composites				
System Safety Assessment for Commercial Aircraft Aviation				
Systems and Safety for Electric/Hybrid Electric Aircraft and Urban Air Mobility				

**KANSAS CITY METRO | APRIL 25 –29, 2022**

**KU Edwards Campus | Overland Park, Kansas | [LPE.ku.edu/aero-kc](http://LPE.ku.edu/aero-kc)**

MONDAY 4/25	TUESDAY 4/26	WEDNESDAY 4/27	THURSDAY 4/28	FRIDAY 4/29
Aircraft Lightning: Requirements, Component Testing, Aircraft Testing and Certification				
Conceptual Design of Unmanned Aircraft Systems				
Flight Control and Hydraulic Systems				
Project Management Fundamentals for Aerospace Professionals				
Propulsion Systems for UAVs and General Aviation Aircraft				

**SAN DIEGO, CALIFORNIA | SEPTEMBER 19–23, 2022**

**San Diego Marriott Mission Valley | [LPE.ku.edu/aero-sandiego](http://LPE.ku.edu/aero-sandiego)**

MONDAY 9/19	TUESDAY 9/20	WEDNESDAY 9/21	THURSDAY 9/22	FRIDAY 9/23
Aerodynamic Design Improvements: High-Lift & Cruise				
Aircraft Avionics Test and Evaluation Fundamentals				
Aircraft Icing: Meteorology, Protective Systems, Instrumentation, and Certification				
Airplane Flight Dynamics				
Cybersecurity Fundamentals for Aerospace Design, Engineering and Operations				
Electrical Wiring Interconnection System (EWIS) Safety Assessment - 25.1709				
Electromagnetic Effects Aircraft Level Testing and FAA Requirements				
FAA Type Certification Process				
Flight Testing Unmanned Aircraft Systems - Unique Challenges				
Future Propulsion Systems and Energy Sources in Sustainable Aviation				
Introduction to Fuel Tank Safety and Ignition Prevention - Design, Certification and Compliance <small>Newly added</small>				
Principles of Aeroelasticity				
Software Safety, Certification and DO-178C				
System Safety Assessment for Commercial Aircraft Aviation				

# UPCOMING PUBLIC COURSES BY DATE AND LOCATION

ORLANDO, FLORIDA | OCTOBER 17-21, 2022

B Resort | [LPE.ku.edu/aero-orlando](http://LPE.ku.edu/aero-orlando)

MONDAY 10/17	TUESDAY 10/18	WEDNESDAY 10/19	THURSDAY 10/20	FRIDAY 10/21
Advanced Avionics <span style="color: red;">Newly added</span>				
Aircraft Structures: Analysis and Design				
Cabin Safety and Crashworthiness of Aircraft Cabin Interiors				
Complex Electronic Hardware Development and DO-254*			Integrated Modular Avionics (IMA) and DO-297*	
FAA Aircraft Certification and Airworthiness Approvals				
FAA Type Certification Plan Development				
Introduction to RTCA DO-160 Qualification: Purpose, Testing and Design Considerations				
MIL-STD Qualification: Purpose, Testing and Design Considerations <span style="color: red;">Newly added</span>				
Operational Test and Evaluation: User-Centric Systems Testing				
Unmanned Aircraft System Software Airworthiness				
* <b>COMBINE COURSES:</b> Save 20% when you combine Complex Electronic Hardware Development and DO-254 and Integrated Modular Avionics (IMA) and DO-297				

**Just announced!**

SEATTLE, WASHINGTON | APRIL 17-21, 2023

DoubleTree Suites by Hilton Hotel Seattle Airport Southcenter | [LPE.ku.edu/aero-seattle](http://LPE.ku.edu/aero-seattle)

MONDAY 4/17	TUESDAY 4/18	WEDNESDAY 4/19	THURSDAY 4/20	FRIDAY 4/21
Aircraft Avionics Test and Evaluation Fundamentals				
Aircraft Structures: Analysis and Design				
Complex Electronic Hardware Development and DO-254*			Integrated Modular Avionics (IMA) and DO-297*	
Cybersecurity Fundamentals for Aerospace Design, Engineering and Operations				
Electromagnetic Effects Aircraft Level Testing and FAA Requirements				
Fundamentals of V/STOL Rotorcraft				
Instructions for Continued Airworthiness Using Enhanced Zonal Analysis Procedure (EZAP)				
Operational Aircraft Performance and Flight Test Practices				
System Safety Assessment for Commercial Aircraft Aviation				
* <b>COMBINE COURSES:</b> Save 20% when you combine Complex Electronic Hardware Development and DO-254 and Integrated Modular Avionics (IMA) and DO-297.				

# IN-PERSON COURSE INFORMATION

Visit each program’s website listed below for details on the course venue, accommodation options, course descriptions, registration information and other relevant information.

## SEATTLE, WASHINGTON

DoubleTree by Hilton Seattle  
Airport Southcenter

March 28 - April 1, 2022

**Just announced!** April 17-21, 2023

[LPE.ku.edu/aero-seattle](http://LPE.ku.edu/aero-seattle)

## KANSAS CITY METRO

KU Edwards Campus  
Overland Park, Kansas

April 25-29, 2022

[LPE.ku.edu/aero-kc](http://LPE.ku.edu/aero-kc)

## SAN DIEGO, CALIFORNIA

San Diego Marriott  
Mission Valley

September 19-23, 2022

[LPE.ku.edu/aero-sandiego](http://LPE.ku.edu/aero-sandiego)

## ORLANDO, FLORIDA

B Resort  
Disney Springs

October 17-21, 2022

[LPE.ku.edu/aero-orlando](http://LPE.ku.edu/aero-orlando)

## Health and safety information

We prioritize your health and safety. Visit the sites linked above for specific COVID-19 safety precautions.

## Lodging

A limited number of rooms will be available at the course venue or nearby hotel for attendees to book lodging at a discounted rate. For rate information and booking instructions, visit the program’s website.

## International travelers

Are you planning to attend one of our courses in the United States but are not a U.S. citizen? Please visit [travel.state.gov](http://travel.state.gov) for visa and travel information.

# COURSE REGISTRATION FEES

CLASS LENGTH	IN-PERSON COURSE	ONLINE COURSE
1-day class	\$895/\$945*	N/A
3-day class	\$1,895/\$1,995*	\$1,795/\$1,895*
4-day class	\$2,195/\$2,395*	\$1,895/\$2,095*
5-day class	\$2,495/ \$2,695*	\$2,195/\$2,395*

\* Save up to **\$200** on the course registration fee when you register and pay at least 45 days in advance for in-person courses, and seven or more days in advance for online courses.

# DISCOUNTS

## ★ U.S. Federal Employee discount

All courses are available to U.S. federal employees at 10% off the registration fee. To receive the federal employee discount, you must enter the code FGVT116 on the registration form or during the online checkout process.

## 🍁 Canada Department of National Defence Discount

Most courses are available to Canada DND employees at 10% off the registration fee. Please contact the DND Procurement Authority (DAP 2-3) for details. Please note you cannot register using our online system when requesting this discount.

## 🇳🇱 Netherlands Defence Academy Discount

All courses are available to Netherlands Defence Academy employees at a discounted registration fee. Please contact the NDA Procurement and Contracting department for details. You cannot register using our online system when requesting this discount.

## CERTIFICATES OF SPECIALIZATION

Certificates of Specialization are for those who desire concentrated study in a specific area of interest. Achieving a Certificate of Specialization demonstrates to employers, coworkers and the aerospace industry that you are qualified, competent and current in your field. Complete four courses within one of the following nine specializations to earn a certificate:

- Aerospace Compliance (AC)
- Aircraft Design (AD)
- Aircraft Maintenance and Safety (AMS)
- Aircraft Structures (AS)
- Avionics and Avionic Components (AAC)
- Electromagnetic Effects (EME)
- Electrical Wiring Interconnected System (EWIS)
- Flight Tests and Aircraft Performance (FT)
- Unmanned Aircraft (UA)

Visit [LPE.ku.edu/aero-certificate](http://LPE.ku.edu/aero-certificate) for more information on Certificates of Specialization and required courses.

## HOW TO REGISTER

### To Register Online

Visit [www.enrole.com/kupce](http://www.enrole.com/kupce) or scan the QR code.



### Register By Mail

- Download the registration form (PDF) from our website or fill out the form on Page 39 of this catalog.
- Complete the form and attach a check or money order payable to University of Kansas. Please reference LPE on your check.
- Mail the form and payment to:  
KU Lifelong & Professional Education  
Contact Center  
12600 Quivira Road  
Overland Park, KS 66213 USA

### Register By Phone

Please contact us at 913-897-8530.

### Payment

All fees are payable in U.S. dollars and due upon registration.

#### Payment by credit card

Online registrations must be paid by credit card. KU accepts MasterCard, VISA, Discover and American Express.

#### Payment by check (personal or company check) or money order

Please mail your registration form and a check or money order in U.S. dollars to the address listed above. Make your check or money order payable to "The University of Kansas". Please reference LPE on the check. *A \$30 fee will be charged for returned checks.*

#### Payment by purchase order or wire transfer

KU Lifelong & Professional Education requires payment upon registration. If your organization requires use of a purchase order before payment is issued or must pay by wire transfer, please contact us at [LPE@ku.edu](mailto:LPE@ku.edu). Please note that to receive the Early Registration Discount, full payment will be required before the early registration deadline as listed on each course page.

Visit [LPE.ku.edu/aero-registration](http://LPE.ku.edu/aero-registration) for more registration details and policies.

# AEROSPACE SHORT COURSES

## WE'RE BACK!

**Join us for face-to-face courses:**

- Seattle 2022
- Orlando 2022
- Kansas City 2022
- Seattle 2023
- San Diego 2022

**Register today at [aeroshortcourses.ku.edu](https://aeroshortcourses.ku.edu)!**