

ZONAIR

Training



August 9 - 11, 2017



ZONA TECHNOLOGY

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ZONAIR is engineering software used to compute steady aerodynamics of a flight vehicle. ZONAIR employs a high-order panel-based methodology for computation of aircraft flight loads that can include aeroelasticity and aerothermoelasticity effects.

Class Topics

Day One

- About ZONAIR
- Introduction and Overview of ZONAIR
- Main Features of ZONAIR
 - ▷ Theory Behind ZONAIR
- High Order Panel Method
 - ▷ Aerodynamics
- Bulk Data Cards for Aerodynamics Modeling
- Aerodynamic Modeling Guidelines
- High Fidelity Wing and Body Modeling

Day Two

- Spline
 - ▷ Beam Spline, Surface Spline, 3D Spline
 - ▷ Bulk Data Cards for Spline
 - ▷ Modeling Guidelines for Spline
- Trim and Loads Analysis
 - ▷ Set-up Trim Analysis
 - ▷ Bulk Data Cards for Trim and Loads Analysis
 - ▷ Modeling Guidelines for Trim and Loads
- Aerothermal Analysis
- Hands-On Training (**Laptop Required**)

Day Three

Topics Continue

- Spline
 - ▷ Beam Spline, Surface Spline, 3D Spline
 - ▷ Bulk Data Cards for Spline
 - ▷ Modeling Guidelines for Spline
- Trim and Loads Analysis
 - ▷ Set-up Trim Analysis
 - ▷ Bulk Data Cards for Trim and Loads Analysis
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- Aerothermal Analysis
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Training Schedule

Day 1 - Wednesday

9:00 am - Class Begins
10:30 am - Break (10 min)
12:30 pm - Lunch Break (1 hour)
3:00 pm - Break (10 min)
5:00 pm - Class Dismissed

Day 2 - Thursday

9:00 am- Class Begins
10:30 am - Break (10 min)
12:30 pm - Lunch break (1 hour)
3:00 pm - Break (10 min)
5:00 pm - Class Dismissed

Day 3 - Friday

9:00 am- Class Begins
10:30 am - Break (10 min)
12:30 pm - Lunch break (1 hour)
3:00 pm - Break (10 min)
5:00 pm - Class Dismissed