

AFGROW Virtual Advanced Training Syllabus

Day 1

- Creating Crack Growth Rate Models**
- Crack Growth Rate Model Review**
- Using the Fracture Mechanics Database**
- Curve Fitting Tabular Data**
- In-Class Exercise**
 - Fitting Sample Data
 - Importing Tabular Data in AFGROW
- Homework** (Life Prediction Using Constant Amplitude Loading)

Day 2

- Using Load Interaction Models**
- Constant Amplitude Life Prediction**
- Discussion**
- Spectrum Development Review**
- Retardation Model Review**
- Load Interaction Modeling Examples**
- Discussion**
- Homework** (Life Prediction Using Variable Amplitude Spectra)

Day 3

- Advanced COM API Programming**
- AFGROW *Application Interface, Methods, Properties and Events***
- Using COM to Control AFGROW**
- AFGROW COM Interfaces**
- Creating New K-Solutions**
- Hands-On COM Examples**

Day 4

- Multi-Site Damage Modeling**
- Modeling Environmental Effects**
- Life Prediction Process for an Aircraft Control Point**
 - Selecting a Control Point
 - Determining Spectrum Reference Stress
 - Example Control Point Analysis (Lap Joint)
 - Automating the Process with COIM