Sustainment of Aging Metallic and Composite Aircraft and Helicopters MasterClass

FATIGUE CONCEPTS

Atlanta OKC San Diego Washington
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BOOK NOW! SAVE UP TO $500! Early Bird.
▷ Enroll 1 student, get the 2nd, 3rd each @ 1/2 price
▷ AND fourth student free!
▷ We can do this at YOUR facility 4 student minimum

sam@fatcon.com Tel: +1 916 390 5000 www.fatcon.com
Why you should attend this course:

- **Multimedia presentation** including videos will help reinforce important concepts and methodologies: not available in book format

- **Case Studies** will teach attending Delegates important lessons in issues unique to Ageing Aircraft, as well as New Designs, repairs understanding of which will go a long way in minimizing injuries, fatalities and expenses

- **Practical demos** of cold-worked holes

- Real-time interactive activities in classroom with industry peers and an expert instructor

- Much of the information given in this Course, especially fatigue-corrosion interaction concepts, fracture mechanics quick estimates, and practical case histories are hard to come by

- **Group Dynamics:** The Course always attracts professionals with a variety of backgrounds and expertise. Attending Delegates have a unique opportunity to learn from the interactions.

- Delegates will return to the work environment armed with practical guides in course notes, case studies, and technical specs

- Structural Integrity of Ageing Airplanes is a chain link. It is not a one person job. The networking in this seminar will enhance the professional connections to excel at your job.
Syllabus
fatcon.com/sussyl

TESTIMONIALS

“SAM HAS TAUGHT THIS VERY USEFUL COURSE THREE TIMES ALREADY IN OUR FACILITIES IN GERMANY. WE LOOK FORWARD TO HIS NEXT COURSE.”
ENGINEER
LUFTHANSA TECHNIK HAMBURG (GERMANY)

“This course has been extremely valuable to us! This has been given to us many times as we hire new engineers from time to time. Our veterans have benefited from this too.”
CHIEF OF LOGISTICS
ROYAL NORWEGIAN AIR FORCE

“SAM WAS THE VERY FIRST TO ORGANIZE A PUBLIC COURSE SPECIFICALLY TITLED THE AGING AIRCRAFT COURSE, WAY BACK IN THE 80’S! HE HAS CONTINUALLY UPGRADED THE COURSE TO REFLECT ONGOING CHANGES IN NEEDS AND EMERGING TECHNOLOGIES. EXCELLENT COURSE, EXCELLENT TEACHER.”
GROUP LEADER
UNITED STATES AIR FORCE

“OVER THE DECADES, THIS COURSE HAS BEEN VERY VALUABLE TO BOTH OUR ENGINE STRUCTURAL INTEGRITY PROFESSIONALS AS WELL AS AIRFRAME AND HELICOPTER STRUCTURES ENGINEERS. WE HIGHLY RECOMMEND THIS COURSE!”
CHIEF ENGINEER
US NAVY

Your Course Leader

Sam Kantimathi is president of FATIGUE CONCEPTS, a consulting firm based in California.

FATIGUE CONCEPTS specializes in custom training programs in Fatigue, Damage Tolerance, Aging Aircraft, Corrosion Control, Aircraft Sustainment, Composites, and Human Factors training, at or near your location

FATIGUE CONCEPTS is a world leader in providing Aircraft Structural Integrity training to fit your needs and your budgets. Sam Kantimathi pioneered THE AGING AIRCRAFT COURSE and has been teaching engineers, scientists, mechanics and managers worldwide for well over thirty (30) years.

Mr. Kantimathi teaches a variety of aircraft maintenance related courses around the world for various companies, airlines, FAA, CAA and other National Aviation Administrations: fatigue, corrosion, and allied Maintenance-related courses.

Mr. Kantimathi conducted two one-week classes for Princeton University and also one-to-two week courses at numerous organizations including Boeing Company, USAF, NLR (Netherlands), FAA, Singapore Airlines, US Navy, RAAF, Lufthansa Technik, US Army, AIRBUS, Coast Guard, Pratt & Whitney, NASA, Sikorsky and several dozens of companies in five continents. resume
WHOM SHOULD ATTEND

Managers / Engineers / Materials Scientists / Inspectors / DERs in:

- Aircraft Maintenance
- Continuing Airworthiness
- Repair & Overhaul of Airframes
- Materials Selection
- Structural Analysis
- Safety Officers
- Corrosion Prevention & Control Programs (CPCP)
- Metallurgy
- Aircraft Production
- Accident Investigation
- Materials & Processing (M&P)
- Structural Design
- Wiring / Ageing Avionics
- Airline Liaison with OEM
- Helicopter Maintenance
- Engine Overhaul
- Shipbuilding
- Fatigue Crack Growth Analysis
- Regulatory Authority

From Industries including but not limited to:

- Airlines
- Army
- Technical Colleges
- Shipbuilders
- Helicopter OEMs
- Defense Directorates
- Aircraft and Component Manufacturers
- Navy
- Aircraft Manufacturers
- Accident Investigation Agencies
- MROs, Repair Stations
- Air Force
- Civil Aviation Authorities
- Material Suppliers
- University

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A Small Sampling of our clients:

- USAF
- US Army
- US Marine Corps
- US Coast Guard
- Boeing
- Lockheed Martin
- Pratt & Whitney,
- Sikorsky Helicopters
- Bombardier
- NTSB
- FAA
- CAA NZ
- Singapore Airlines
- Air New Zealand
- Qantas
- Sumitomo Precision
- Princeton University
- Royal Norwegian Air Force
- Republic of Singapore Air Force

"I took an advanced durability and damage tolerance analysis class from Sam (Fatigue Concepts). I got a lot out of it. Sam is an excellent teacher for practicing engineers—he knows when to pass through material you already know so he has enough time to spend on the really heavy parts. If Sam can make D&DTA fun, I'm sure he can do great things for your organization as well."

- Aerospace Engineer, USAF

"I immensely benefited from Sam's Ageing Aircraft Course!"

Liaison Engineer
Singapore Airlines

"I found the information on wiring to be particularly useful. Thank you!"

Engineer
Lockheed (USA)
More About Your Expert Course Leader:

Prior to founding **FATIGUE CONCEPTS**, Mr. Kantimathi held senior engineering positions at AeroStructures, Inc. and Beech Aircraft Corporation. He developed and installed a fatigue crack initiation tracking program for the F-4S fleet in the **US Navy**.

For four years, he was the sole instructor in his workshop at **George Washington University** entitled "Minimizing the Danger of Fatigue in Metals and Composites." He also prepares and executes a phenomenally successful course for the **American Institute of Aeronautics and Astronautics** (AIAA) called "Fracture Mechanics - Aerospace Applications".

In 2014, Sam Kantimathi was unanimously inducted as an Associate into the International Federation of Airworthiness. He is an Associate Fellow of AIAA since 1991. Sam serves on a voting capacity in E08.04, .05 and .06 Technical Committees on fatigue and fracture of American Society for Testing and Materials, (ASTM). He belongs to ASM International, **American Society for Training and Development**, **ASME**, **Society for Maintenance and Reliability Professionals**, and **American Helicopter Society**. Sam Kantimathi earned a BS degree in mechanical engineering from the esteemed **Indian Institute of Technology** and an MS degree in mechanical engineering from **Wichita State University**, home of the acclaimed aerospace institution of excellence, National Institute of Aviation Research, NIAR.

Sam Kantimathi is the author of the upcoming AIAA book entitled "Fracture Mechanics - Aerospace Applications." He was a contributor to the 1992 ASM International Handbook of Case Histories in Failure Analysis. He has published papers in SAE and ASME journals and lectured at a meeting of **ASM International**. Mr. Kantimathi actively campaigned for, and participated in the publication of "Case Studies for Fatigue Education" following the ASTM symposium of the same name. He has also presented an invited paper to the **New Challenges in Aircraft Maintenance & Engineering Conference** in Singapore, in conjunction with Singapore Air Show.

**Lockheed Martin, MOOG, Lawrence Livermore National Labs** and **LORD Corp** are among the companies that have utilized Sam Kantimathi consulting.

Sam Kantimathi has recently received extensive training on aircraft structural repair analysis, human factors, aircraft loads and corrosion prevention from a few institutions including **University of California, LexTech - AFGROW, McDonnell Douglas, Boeing** and **US Air Force Academy**.
Is this Fatigue Course not what you are looking for.... please take a look a some of the other courses we offer:

- Aging Aircraft Course
- Aircraft Structural Accidents
- Aircraft Composites
- Corrosion of Aircraft Structures
- Composite Structures
- A/C Structural Repair Analysis
- Human Factors in Aircraft Maintenance and Repair
- The Bogus Bolt Course, Anomalous Parts.
- Advanced Damage Tolerance Analysis

Not seeing the training topic you need? ....please contact us sam@fatcon.com

We would be happy to put together a course to meet your specific needs.

WHY NOT BRING THIS COURSE INTERNALLY?

- Want to save time and money for your company?
- You have 4 or more employees needing to be trained?
- Want a customized syllabus?
- Wish flexible days and times?

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Syllabus
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Tuition Fees
First Student from your company USD $2499*
Second Student (50% discount) USD $1249
Third Student (50% discount) USD $1249
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Fifth Student onwards, only USD $500 each!
Early Bird Discount: $500 per company
if paid in full 30 days before Course Start date
*only USD$1999 30 days before Course Start!

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