This course covers the essential topics pertaining to composites engineering and the certification process. Its contents provide students with an awareness of the composites engineering process framework through course materials and practical applications through online discussions. Topics include engineering, manufacturing, maintenance, and certification of composite materials associated with civil aircraft structures. The course content is in accordance with FAA AC 20-107B (Composite Aircraft Structure). CSET-A is prerequisite to CSET-B, with each course 6 weeks in length.

This course was developed through the collaboration of Wichita State University, industry subject matter experts, and the Federal Aviation Administration. The course is taught online, includes all teaching materials, and features real-world discussions facilitated by those with subject matter expertise and FAA representatives. Depending on prior knowledge, experience, and level of student involvement, attendees typically spend six or more hours per week, reviewing materials, participating in online discussions, and testing their knowledge.

After finishing a 1-week period of self-study of fundamental composites and successfully completing an examination in CSET-A, students proceed to more advanced topics through an on-line, interactive learning experience via Blackboard for the next five weeks. The six-week module, CSET-B, follows CSET-A in a similar teaching format. Students may take CSET-B immediately after CSET-A, or as an option, delay CSET-B enrollment until a later offering for schedule flexibility. Teaching methodology includes online discussions facilitated by subject matter experts, content in PowerPoint slides available for download, and audio/visual aids. As an asynchronous learning process, the schedule is flexible, with students determining their time schedule and participating at their convenience during each week of class.

- Students will describe engineering principles for substantiating composite airframe structures during all stages of aircraft product certification.

- Professionals responsible for the engineering of composites.
- Individuals having a general background in composites and/or engineering technology.
- Civil aviation regulatory authorities and industry delegates who participate in the certification of composite structures.

Tuition per student is $900.00 for each online module. The optional hands-on laboratory will be an additional fee. Registration is limited to 24 individuals and will be accepted on a first come first serve basis. Course materials are included with tuition.
You may register and pay on-line at www.wichita.edu/cset.

If the class fills prior to registering, students are placed on a waiting list for possible future classes.

All cancellations must be made in writing. A 15% administrative fee will be assessed on all

Charles Seaton has over 30 years of experience with various aerospace businesses involving aircraft design, manufacturing and maitenance, education and aircraft modification. He has led and consulted in global education initiatives which promote safe practices with composite materials in aerospace and other industries. He has taught and developed curricula with international composite experts and educators in the field of composite technology, repair and engineering for over ten years.

, *Aerospace Engineer, Composite Technical Specialist, FAA Policy and Innovation Division*