

## **Summary of Terminal Course Objectives (TCOs)**

- **Prerequisite Course (content only)**
  - **TCO [A] Understand basics of composite materials technology**
    - 4 reviews
  - **TCO [B] Understand the basics of composite materials maintenance and repair**
    - 2 reviews
  - **TCO [J] Understand other critical elements of composite maintenance and repair**
    - 2 reviews

# Evaluation Objectives

- **Tasking:**
  - **Is content consistent with TCO's**
    - **Consensuses; reviewers agree content is consistent**
    - **Some suggestions for clarification**
  - **Proper emphases?**
    - **Few questions concerning technical depth**
  - **Enhancements?**
    - **Few suggestions**

# Proper Emphases?

- **The TCOs form the framework for the class by identifying specifically the knowledge areas required of students.**
  - **TCO A:**
    - **New words/glossary -- resource for other TCO's, agreement across industry, US & EU?**
    - **Understanding of differences between metallic and polymeric based composite technology?**
    - **Technical depth;**
      - **T<sub>g</sub> and degree of cure, curing temperature, ----> Material Limits?**
      - **Nature of bonding and adhesion, --**
      - **Nature of galvanic corrosion associated with graphite systems**
      - **Surface treatments and protective coating systems; is this a special topic (TCO J)?**
  - **TCO B appears to emphasize bonded repair and TCO J focuses on bolted repair**

# Enhancements?

- **Keith Armstrong's summary outline was excellent, it provided a crisp focus**
  - **Second iteration option**
  - **Key points in outline; technical understanding versus judgment of good or bad practice?**
  - **Reinforce key points with pictures and illustrations**  
(CIRRUS presentation example)
  - **Reference other sources of published materials. Example; literature/books developed for the EAA kit aircraft home builders community.**
  - **Other TCO's; cross reference back to "Basic Knowledge;" technical understanding versus judgment**

# Summary

- **Findings:**
  - **Content is consistent with TCO's**
    - Consensuses; reviewers agree content is consistent
    - Some suggestions for clarification
  - **Proper emphases?**
    - Few questions concerning technical depth and breath
  - **Enhancements?**
    - Few suggestions for next iteration
- **Mid term objective accomplished**
  - **normal iterations as content matures**

**The Lear Fan Certification Team (Spring 1979):  
First All Composite FAA Certification**

