

# **AMTAS Composites Repair Awareness Class**

## **The Role of Repair Issues Awareness Training**

Flexible curricula based on common repair principles.

- Multi-page document of flight worthy repair principles.
  - Principles are common to all functions of repair professionals.

Awareness teaching points are adaptable to multiple contexts.

- Boeing and OEMs update existing curricula with awareness points.
- FAA send its people to a stand-alone awareness course.
- MROs and airlines will create training to fill awareness gaps.
  - Find gaps in their skill bases

## **Industry-wide Awareness Outreach**

Need to repair composite structure without incident is expanding.

Incorporate the OEMs in Awareness Training (Boeing, Airbus, Embraer?, Saab?, Russians?, Chinese?)

- Current plans already cover major transport regions.
  - US, Canada, Europe, Pacific Rim
- Need to develop labs more parts of the world.
  - South America, Russia, China

On-line classes will teach the content, but a lab will be taught on location to reinforce the instruction points.

- On-line classes will be offered at EdCC.
- Other trainers can take the public content and design a course.

Industry partners (US and International) will be used to teach the lab portions of the class.

- Labs will be taught at multiple locations.
- Public content will allow other lab trainers to teach this as well.
- Lab can only be 3 days to allow for travel on Mon. and Fri.

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## **Where Awareness Training could be Going**

Engaging the experts to teach Awareness Training.

- Experienced professionals may utilized during their retirement status
- Experts in specific areas can teach particular awareness topics with on-line training.

Simulations.

- Develop simulation laboratory on-line.
- Engineering simulations with on-line training?

Incorporating human factors needs into Awareness Training.

- E.g., traditional classroom have only 6 hrs of productive training per day.
- “Chunking” teaches topics in small bits to improve retention (rather than a continuous flow).
- Modify the hands-on lab so that it doesn’t take 10-hr days in order to cram the content into just 3 days.

Where do we go from here with on-line training?

- Other on-line classes for composites and materials subjects

Shared whiteboard sketching methods for on-line training.

- Organic type of interaction common to science education

Consider AMTAS on-line principles for CMH-17 training.