

The logo for the Joint Advanced Materials and Structures Center of Excellence (JAMS) features the letters 'JAMS' in a bold, blue, textured font. Below the text are two thick, curved brushstrokes: a yellow one on top and a blue one on the bottom, both curving from left to right.

JAMS

Course Development: COMPOSITES AWARENESS FOR THE AVIATION SAFETY INSPECTOR

Charles Seaton, Principal Investigator



COMPOSITES AWARENESS FOR THE AVIATION SAFETY INSPECTOR

- Motivation and Key Issues
 - Training is required to provide ASI's with the knowledge and skills required for oversight and auditing of aircraft manufacturing and maintenance facilities for composite aircraft
- Objective
 - Develop knowledge and skills for performing FAA inspector job functions
- Approach
 - Customize prior Phase IV awareness course
 - Prototype class to refine framework & content
 - Identify training organizations for sustained training

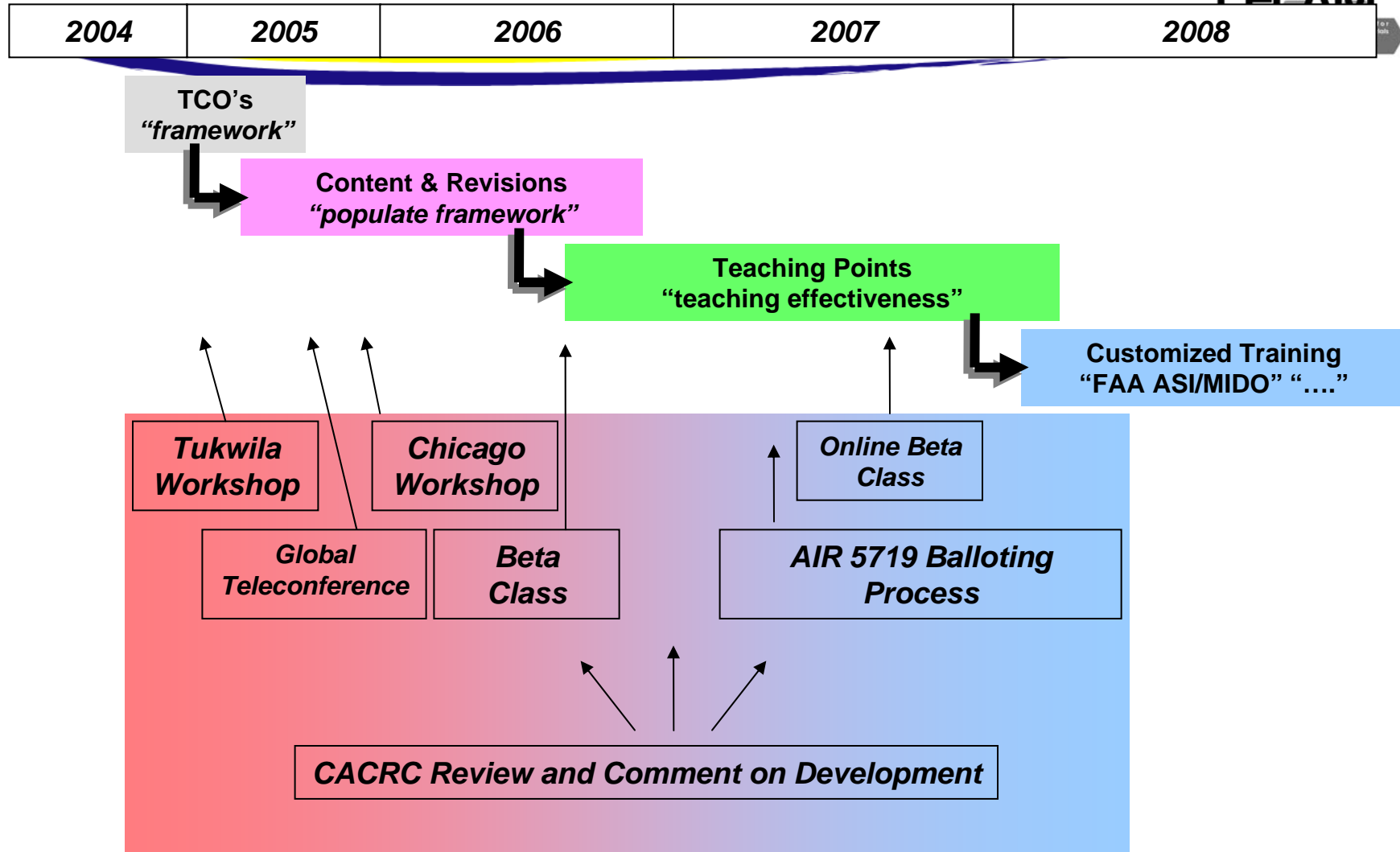
FAA Sponsored Project Information

- Principal Investigators & Researchers
 - Charles Seaton
- FAA Technical Monitor
 - Curtis Davies
- Other FAA Personnel Involved
 - Rusty Jones - ASI
 - William Scott - ASI
 - Mike Hendricks - ASI
 - Charles Ruggiero - ASI
 - Gail Williams – Educational Development
 - Matthew Royston - Contracts
 - Arsenio Cabanas-Jr. - Contracts
- Industry Participation (Phase V only)
 - Abaris Training Resources, Inc.
 - Consultants: Hank Offermann and Bill Basse (for FAA employees)

COMPOSITES AWARENESS FOR THE AVIATION SAFETY INSPECTOR

Development

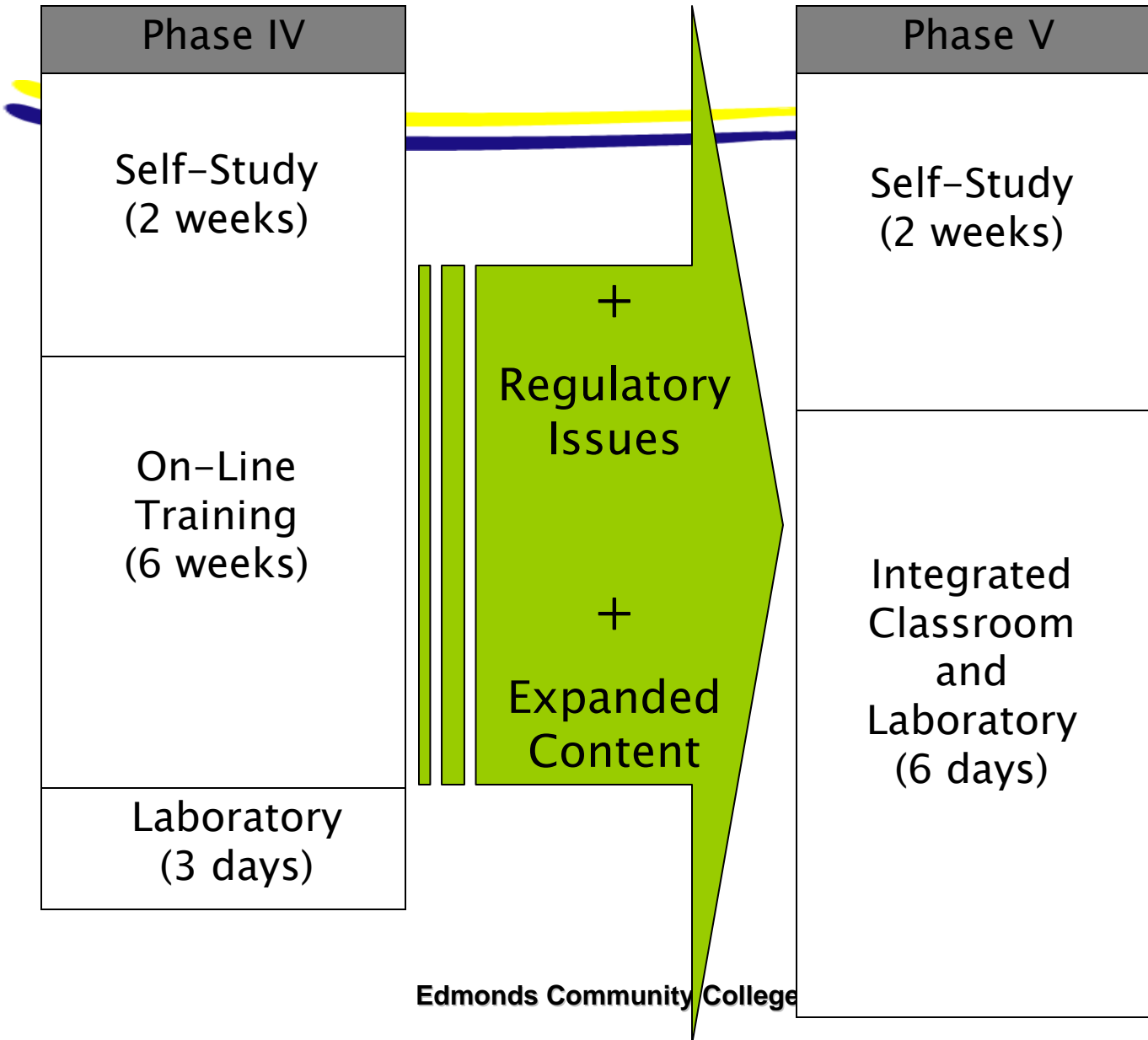
Industry Feedback



Edmonds Community College

Development Outcomes (Phases I – IV) Completed December 2007

- Industry standard
 - 3 years in development by broad spectrum of experts from all facets of composites industry
- Demonstration of online training to composites' maintenance training
 - Hybrid format – self-directed study, online education, 3- day laboratory
 - Global outreach capability, cost-effective
- Technical Center reports currently under review
 - Development process and background (I – III)
 - Online training evaluation and Training Repair Manual (TRM) (Phase IV)



IMPLEMENTING THE PHASE V PRODUCT

- ASI Workshop (February 2008)
 - Refined the course framework through modified course objectives
 - Developed draft for job aid (inspector checklist)
- Prototype Class (September 2008)
 - Hybrid format: self-directed online education, classroom and laboratory
 - Conducted at Abaris, Reno NV
- Establish contractual basis for ASI/MIDO training
 - Site evaluation based on scorecard
 - Minimum of 4 sites

- Development of a course standard
 - Estimated \$2.5 million – funding from all sources
 - Global involvement
- Improved teaching tools in composite maintenance
 - Framework (TCOs) governs a balanced content
 - Training Repair Manual to simulate an OEM ‘structural repair manual’
 - Illustrated effectiveness of online training
- Customizing the course to specific audience (FAA inspectors)

- Benefit to Aviation
 - Provides awareness of safety and technical issues associated with composites' maintenance to practitioners (FAA inspectors)
 - Illustrates a process for customizing Phase IV course to specific needs
- Future needs: Customization of awareness course content and format to:
 - Other audience groups within FAA
 - Other regulatory agencies such as EASA, TCCA