

Participant Feedback

Presentation

- Safety Awareness Structural Eng.Course
 - Outline
 - Workshop Role in Development
- Course Elements – Example of how pieces fit together
- Future Involvement

ACO Course Outline

Introduction

Challenges – Applications

Design/Mat'l/Fabrication Development

- **M&P Control (25%)**
- Composite Structure Design
- Manufacturing Implementation
- Maintenance Considerations

Proof of Structure – Static

Proof of Structure – Fatigue and Damage Tolerance

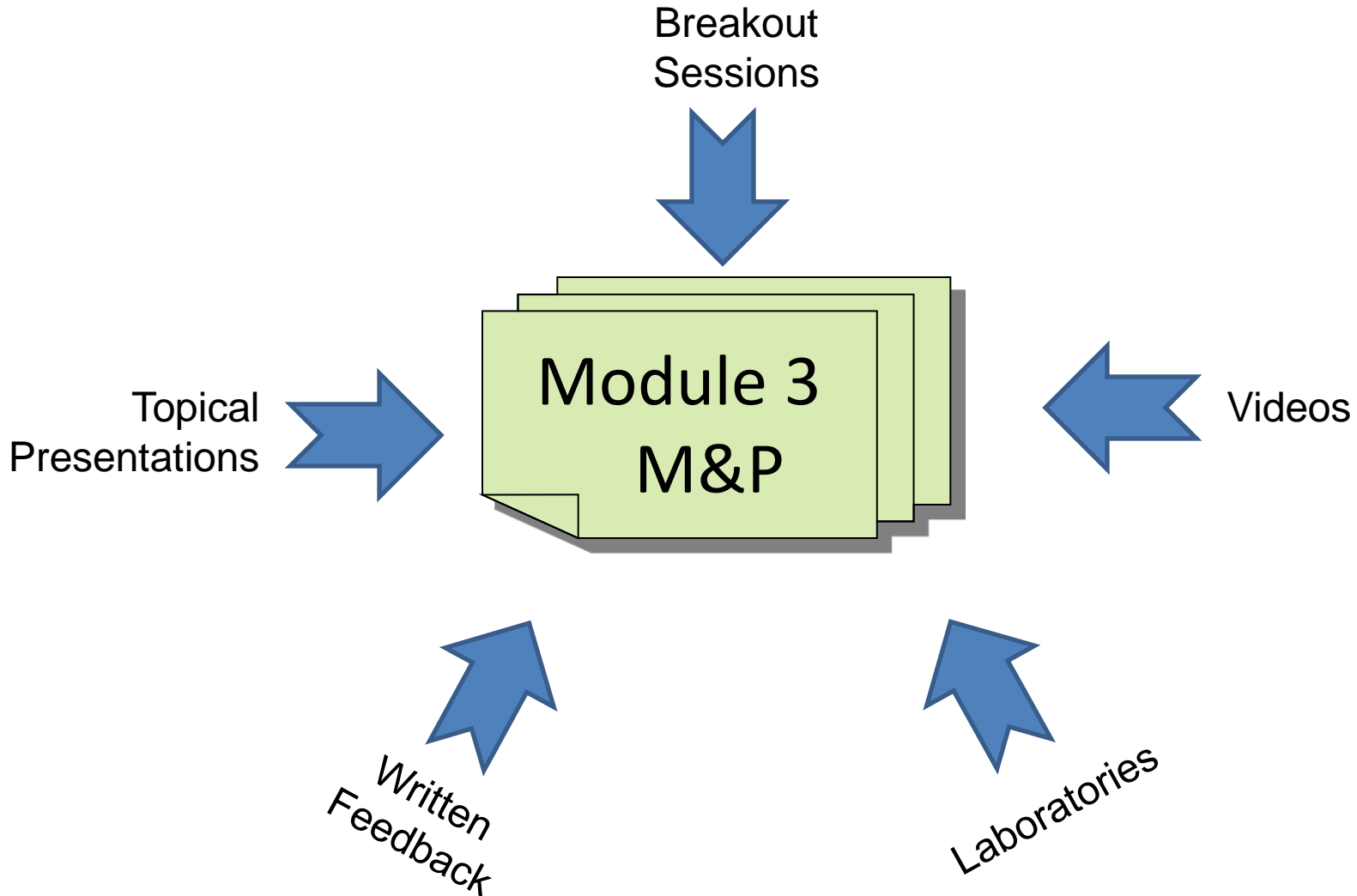
Manufacturing Interface

Maintenance Interface (6%)

Additional Considerations

- Crashworthiness
- Fire safety & fuel tank issues
- Lightning strike
- Maintenance of structural coatings and paints

Module: M&P Control (25%)



Structure Engineering Safety Awareness Course Process

- Elements of Course
 - Course objectives: Acknowledges needs of student audience
 - Teaching points: Assures consistency in learning
 - Content: Provides study materials for students
 - Contextual learning (“meaning before content”):
Solidifies learning – increases content retention
Videos, case studies, ‘testimonials’, SME participation,
laboratory
- FAA training organization supports process

Structure Engineering Safety Awareness Course Process

PRESENTATION: Testing for Equivalence

[From the presentation slides]

OBJECTIVE: At the end of this course, the student will describe how to exercise engineering judgment for determining material equivalence

TEACHING POINTS: 1) Few failures on retest => random chance 2) Retest shows a pattern of failure => NOT equivalent

For Further Involvement

→ ACO Course Development

- Interest in participating in development, such as
 - Content development
 - Case studies based on actual experience
 - Further feedback

→ Online Composite Maintenance Technology course (Oct 24 – Dec 5, 2010) - Handouts

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