Society of Allied Weight Engineers, Incorporated

Aerospace • Marine • Offshore • Land Vehicle • Allied Industries

SAWE TRAINING PROGRAM

2016 Texas Chapter Training Conference

(Part I) February 23-27 & (Part II) April 8-9, 2016 at
Texas State Technical College

2016 Texas Chapter Regional Training Conference Part I

		23-Feb-16 Tuesday	24-Feb-16 Wednesday	25-Feb-16 Thursday	26-Feb-16 Friday
		Room 1	Room 1	Room 1	Room 1
8:00 AM 12:00 PM	Morning	Aircraft Weighing Class Tom Oole	Aircraft Weighing Class Tom Oole	AWBS Harold Smoot	Form F AWBS (new addition) Harold Smoot
1:00 PM 5:00 PM	Afternoon				

2016 Texas Chapter Regional Training Conference Part II

		8-Apr-16 Friday		9-Apr-16 Saturday	
		Room 1	Room 2	Room 1	Room 2
8:00 AM 12:00 PM	Morning		Aircraft Textbook Overview	Aircraft Fuel Calibration Process	Aircraft Textbook Overview
1:00 PM 5:00 PM	Afternoon		(new class) Dell Ruff	(new class) Steve Cook	(new class) Dell Ruff

Part I Courses

Aircraft Weight & Balance $1000

AWBS $750

Part II Courses

Fuel Calibration $75

Aircraft Textbook $100

Questions or more information?

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Aircraft Weight and Balance Class

- Instructor: Tom Oole, SAWE Honorary Fellow, United States Air Force - Retired
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- Class Description: (2 day class)
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- This two-day course assumes a basic knowledge of weight and balance. The class will demonstrate and teach proper procedures for weighing and completing forms for military aircraft. The intent of this class is to provide the student with an understanding of the weight and balance system within the United States Air Force and “pitfalls” involved in weighing aircraft. Students should bring basic calculators, paper, and pens/pencils for use in examples and exercises. Students should also dress appropriately for the trip to the aircraft hangar. Wear rubber-soled, closed-toed shoes.
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- Lunch will be provided on both Tuesday and Wednesday

Automated Weight and Balance System (AWBS) Training

- Instructor: Harold Smoot, SAWE Fellow, Lockheed Martin
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- Class Description: (1½ day class)
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- This 1½ day class will present the features of the Automated Weight and Balance Software in a hands-on training class. The class will begin with a discussion of the terms and developmental history of AWBS, minimum system requirements, and software installation. The basic approach of the class is to give computer demonstrations followed by student exercises that will provide the students with a good understanding of AWBS Version 10.0 features. Students will receive a complete overview of the software features to support weight control programs for military aircraft. The instructor will also allow time to address specific AWBS needs and questions of the students. Students are required to bring their laptop computer. A version of AWBS 10.0 will be required for the class.
- Lunch will be provided on Thursday only.

Aircraft Textbook – all day Friday and Saturday

- Instructor: Dell Ruff, Gulfstream
- Class Description (1-2 day class)
- This class will teach the first portion of the Aircraft Textbook. This class will address in detail the first five chapters of the "Introduction to Aircraft Weight Engineering". The books Introduction, Requirements, Impact of weight on performance will be taught in the morning and Aircraft Design Synthesis and Introduction to Weight Estimation will be taught in the afternoon.
- Later chapters of the book will be addressed and taught at future conferences.

Aircraft Fuel Calibration and Fuel Usage

- **Aircraft Fuel Calibration Process**
- Instructor: Steve Cook, L-3
- This 1 day class will explain how to perform an actual measurement of the fuel availability and the usage thereof for an aircraft under development. This class includes determination of maximum quantity (volume and weight) and center of gravity of the fuel for each tank during fuel usage. Determine actual fuel density and adjusting fuel quantity gages for actual conditions. Fuel transfer rates for c.g. control will be discussed. Actual versus theoretical volumes, and usable versus total will be discussed.

- Creating and Using Fan Grid Plots with Excel. This material will take the results from a fuel calibration process and create fuel burn curves in Excel Fan grid plots. Creating flight limitations will be demonstrated. Usage of fuel burn data will be discussed.