



Aviation Mechanic

Airman Certification Standards (ACS)

# Subject Reference Guide

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# Aviation Mechanic ACS Subject Reference Guide

The listing below guides you through the subject areas included in the new Aviation Mechanic ACS and provides the Avotek references for each subject. The Avotek books referenced here include the following:

## Avotek® Aircraft Maintenance Series

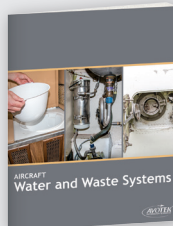
	<b>Introduction to Aircraft Maintenance</b>		<b>Aircraft System Maintenance</b>
	<b>Aircraft Structural Maintenance</b>		<b>Aircraft Powerplant Maintenance</b>



**Helicopter Maintenance**  
*by Joseph Schafer*



**Transport Category Aircraft Systems**  
*by Thomas W. Wild*



**Aircraft Water and Waste Systems**



## I. General

### **Subject A. Fundamentals of Electricity and Electronics**

*Introduction to Aircraft Maintenance* chapter 11

### **Subject B. Aircraft Drawings**

*Introduction to Aircraft Maintenance* chapter 2

### **Subject C. Weight and Balance**

*Introduction to Aircraft Maintenance* chapter 5

### **Subject D. Fluid Lines and Fittings**

*Introduction to Aircraft Maintenance* chapter 8

### **Subject E. Aircraft Materials, Hardware, and Processes**

*Introduction to Aircraft Maintenance* chapter 6;  
*Aircraft Structural Maintenance* chapter 3

### **Subject F. Ground Operations and Servicing**

*Introduction to Aircraft Maintenance* chapter 13

### **Subject G. Cleaning and Corrosion Control**

*Introduction to Aircraft Maintenance* chapter 7

### **Subject H. Mathematics**

*Introduction to Aircraft Maintenance* chapter 1

### **Subject I. Regulations, Maintenance Forms, Records, and Publications**

*Introduction to Aircraft Maintenance* chapter 14

### **Subject J. Physics for Aviation**

*Introduction to Aircraft Maintenance* chapter 3

### **Subject K. Inspection Concepts and Techniques**

*Introduction to Aircraft Maintenance* chapter 9;  
*Aircraft System Maintenance* chapter 11

### **Subject L. Human Factors**

*Introduction to Aircraft Maintenance* chapter 15



## II. Airframe

### Subject A. Metallic Structures

*Aircraft Structural Maintenance* chapter 4

### Subject B. Non-Metallic Structures

*Aircraft Structural Maintenance* chapter 2, chapter 5, chapter 7

### Subject C. Flight Controls

*Aircraft Structural Maintenance* chapter 8

### Subject D. Airframe Inspection

*Introduction to Aircraft Maintenance* chapter 15;  
*Aircraft System Maintenance* chapter 11

### Subject E. Landing Gear Systems

*Aircraft System Maintenance* chapter 3

### Subject F. Hydraulic and Pneumatic Systems

*Aircraft System Maintenance* chapter 1

### Subject G. Environmental Systems

*Aircraft System Maintenance* chapter 2

### Subject H. Aircraft Instrument Systems

*Aircraft System Maintenance* chapter 5

### Subject I. Communication and Navigation Systems

*Aircraft System Maintenance* chapter 6

### Subject J. Aircraft Fuel Systems

*Aircraft System Maintenance* chapter 9

### Subject K. Aircraft Electrical Systems

*Aircraft System Maintenance* chapter 4

### Subject L. Ice and Rain Control Systems

*Aircraft System Maintenance* chapter 10

### Subject M. Airframe Fire Protection Systems

*Aircraft System Maintenance* chapter 8

### Subject N. Rotorcraft Fundamentals

*Aircraft Structural Maintenance* chapter 1;  
*Helicopter Maintenance* by Joseph Schafer

### Subject O. Water and Waste Systems

*Aircraft Water and Waste Systems* and  
*Transport Category Aircraft Systems* by Thomas Wild, chapter 12, sections 1 & 2



### III. Powerplant

#### Subject A. Reciprocating Engines

*Aircraft Powerplant Maintenance* chapter 1

#### Subject B. Turbine Engines

*Aircraft Powerplant Maintenance* chapter 3

#### Subject C. Engine Inspection

*Aircraft Powerplant Maintenance* chapter 1, section 3 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 3, section 5 (turbine)

#### Subject D. Engine Instrument Systems

*Aircraft Powerplant Maintenance* chapter 2, section 1 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 3, section 1 (turbine)

#### Subject E. Engine Fire Protection Systems

*Aircraft System Maintenance* chapter 8

#### Subject F. Engine Electrical Systems

*Aircraft Powerplant Maintenance* chapter 2, section 5 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 4, section 5 (turbine)

#### Subject G. Engine Lubrication Systems

*Aircraft Powerplant Maintenance* chapter 2, section 2 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 4, section 2 (turbine)

#### Subject H. Ignition and Starting Systems

*Aircraft Powerplant Maintenance* chapter 2, section 3 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 4, section 3 (turbine)

#### Subject I. Engine Fuel and Fuel Metering Systems

*Aircraft Powerplant Maintenance* chapter 2, section 4 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 4, section 4 (turbine)

#### Subject J. Reciprocating Engine Induction and Cooling Systems

*Aircraft Powerplant Maintenance* chapter 2, sections 6 & 7

#### Subject K. Turbine Engine Air Systems

*Aircraft Powerplant Maintenance* chapter 4, sections 6 & 7

#### Subject L. Engine Exhaust and Reverser Systems

*Aircraft Powerplant Maintenance* chapter 2, section 8 (recip.) and  
*Aircraft Powerplant Maintenance* chapter 4, section 8 (turbines)

#### Subject M. Propellers

*Aircraft Powerplant Maintenance* chapter 5





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