



With the following changes, ASA's *General Test Guide 2021* provides complete preparation for the FAA General Knowledge Exam. This test continues to reference the *Airman Knowledge Testing Supplement for Aviation Maintenance Technician* (FAA-CT-8080-4G).

About the Test Changes

The FAA exams are “closed tests” which means the exact database of questions is not available to the public. However, each test cycle the FAA provides a [What's New](#) document, which identifies subjects that have been removed or added to a test. This document also includes pertinent information to ensure training and testing remains correlated, which in turn promotes a reliable certification system.

The question and answer choices in this book provide a comprehensive representation of FAA questions, derived from history and experience with the airman testing process. You might see similar although not exactly the same questions on your official FAA exam. Answer stems may be rearranged from the A, B, C order you see in this book. Therefore, be careful to fully understand the intent of each question and corresponding answer while studying, rather than memorize the A, B, C answer. You may be asked a question that has unfamiliar wording; studying and understanding the information in this book and the associated reference documents will give you the tools to answer all types of questions with confidence. We invite your feedback. After you take your official FAA exam, let us know how you did. Were you prepared? Did the ASA products meet your needs and exceed your expectations? We want to continue to improve these products to ensure applicants are prepared, and become safe aviation maintenance technicians. Send feedback to: cfi@asa2fly.com

Page Number	Question Number	Correct Answer	Explanation
11	8039	[B]	Answer stem C now reads: C—The current in amperes can be found by dividing the source voltage in volts by the sum of the resistors in ohms.
26	8095	[C]	The answer stems now read: A—The electrolytes in each battery are the same, so there are no significant differences. B—The nickel-cadmium would not be affected, but the lead-acid battery could become contaminated. C—Contamination of both types of batteries would occur.
28	8103	[A]	The question now reads: 8103. What type of line is normally used in a drawing or blueprint that indicates invisible edges or contours?
45	8156-1	[B]	The question and answer stems now read: 8156-1. When calculating the new weight and balance for an aircraft, what is used to determine the operating CG range? A—The data plate. B—The Type Certificate Data Sheets. C—The pilot information manual.
45	8157-3	[B]	The question and answer stems now read: 8157-3. Which of the following may cause erroneous scale readings? A—Wheel chocks in place. B—Parking brakes set. C—Parking brakes not set.

Page Number	Question Number	Correct Answer	Explanation
45	8159-1	[B]	<p>The question and answer stems now read:</p> <p>8159-1. Which device(s) is/are used to obtain the greatest accuracy of aircraft leveling?</p> <p>A—Plumb bob and chalk line. B—Spirit level. C—Electronic load cells.</p>
46	8162	[B]	<p>Answer stem B now reads:</p> <p>B—The location of the weight relative to the datum and if it is being removed or added.</p>
46	8164	[C]	<p>Answer stems A and C now read:</p> <p>A—Lateral axis CG control is not a factor in maintaining helicopter weight and balance. C—Weight and balance procedures for airplanes also apply to helicopters.</p>
53	8191-2	[B]	<p>Answer stem C now reads:</p> <p>C—distance from the Datum.</p>
56	8206	[A]	<p>The question and answer stems now read:</p> <p>8206. During installation, MS flareless fittings</p> <p>A—are normally tightened by turning the nut a specified amount, unless the manufacturer lists torque values. B—should be assembled by applying an anti-seize compound to both surfaces of the fitting and flare. C—are normally tightened by applying torque in small increments to prevent over-heating the tube mating surfaces.</p>
57	8214-1	[A]	<p>The question and answer stems now read:</p> <p>8214-1. Which of the following tools is best to use when cutting soft aluminum tubing?</p> <p>A—Hand operated wheel-type tubing cutter. B—Angle grinder with cut-off wheel. C—Circular-saw equipped with an abrasive cutting wheel.</p>
58	8215-2	[C]	<p>Answer stem C now reads:</p> <p>C—At the sleeve, fitting nut, or tube flare.</p>
58	8217-1	[B]	<p>Answer stems A and B and the explanation are changed to read:</p> <p>A—The small diameter of the flattened portion must not be less than 65 percent of the original outside diameter. B—The small diameter of the flattened portion must not be less than 75 percent of the original outside diameter.</p> <p><i>Tubing in the bend is often deformed, and the bend is not satisfactory if its small diameter is less than 75 percent of the outside diameter of the straight tubing.</i></p>
65	8256	[A]	<p>The question and answer stems now read:</p> <p>8256. Torque values for aircraft bolts normally consider</p> <p>A—the threads to be clean and dry. B—tightening the bolt head. C—lubricating the threads.</p>

Page Number	Question Number	Correct Answer	Explanation
65	8257	[A]	Answer stems B and C now read: B—Titanium. C—Aluminum.
66	8260-1	[C]	The answer stems now read: A—the head of the bolt is safety wired. B—they are installed with a lock washer. C—the bolt or nut is not subject to rotation.
77	8320-1	[B]	The question and answer stems now read: 8320-1. If a fire develops in an engine during the starting procedure, you should A—discontinue the start attempt and allow the fireguard to extinguish the fire. B—continue cranking to start the engine and extinguish the fire. C—continue cranking and allow the fireguard to extinguish the fire.
88	8384	[C]	The question now reads: 8384. 64 cubed equals
90	8394	[B]	The question and answer stems now read: 8394. The total piston displacement in a reciprocating engine is A—the volume displaced by only one piston during one-half revolution of the crankshaft. B—the volume displaced by all the pistons during one revolution of the crankshaft. C—the volume displaced by all the pistons during two revolutions of the crankshaft.
94	8416-1	[C]	The answer stems now read: A—inch, meter, and gram. B—inch, kilo, and liter. C—inch, ounce, and pound.
102	8452-6	[A]	The question and answer stems now read: 8452-6. A person installing a product, part, or appliance on a type certificated product must make certain that the item's records document the A—product, part, or material meets FAA airworthiness standards. B—source from which the part came. C—product or material was not produced under an FAA production approval.
104	8460	[A]	Answer stems B and C now read: B—The owner may fly without restriction up to 10 hours. C—The owner may fly in the restricted category up to 10 hours.
109	8487-1	[C]	The answer stems now read: A—To every action there is an equal and opposite reaction. If a force is applied to an object, the object will supply a resistive force exactly equal to and in the opposite direction of the force applied. B—Force is proportional to the product of mass and acceleration. When a force acts upon a body, the momentum of that body is changed. C—Objects at rest tend to remain at rest and objects in motion tend to remain in motion at the same speed and in the same direction, unless acted on by an external force.

Page Number	Question Number	Correct Answer	Explanation
110	8491-2	[B]	The question is changed to read: 8491-2. Which of the following statements is correct?
111	8497	[C]	The question and answer stems now read: 8497. When an aircraft is sold domestically, the Airworthiness Certificate A—must be surrendered to the local Flight Standards District Office. B—becomes invalid until the new owner makes application for a new Airworthiness Certificate. C—is transferred with the aircraft at the time of sale.
122	8530-1	[B]	The question now reads: 8530-1. 14 CFR Part 65 contains regulations regarding the certification of
123	8531-3	[B]	The question and answer stems now read: 8531-3. How long is a mechanic certificate with airframe and/or powerplant rating(s) valid? A—Until the holder is relieved of duties for which the holder was employed and certificated. B—Until voluntarily surrendered, permanently revoked, or temporarily suspended. C—24 months after the holder has last exercised the privileges of the certificate.