

REVIEW ANSWERS

Chapter 2: Standard Practice Resources

Read the phrases below and select the publication they best describe.

1. Provides up-to-the-minute instructions for maintaining engines and components.

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| A. Illustrated Parts Catalog | C. Manufacturer's Instructions |
| B. Standard Practices Manual | D. Service Bulletins |

2. Illustrates gas turbine engine assemblies together with part numbers

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|-------------------------------------|--------------------------------|
| A. Illustrated Parts Catalog | C. Manufacturer's Instructions |
| B. Standard Practices Manual | D. Service Bulletins |

3. Provides the technical data required to maintain the engine. Information, instructions, and procedures are based on actual experiences acquired under varied and exacting conditions.

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| A. Illustrated Parts Catalog | C. Manufacturer's Instructions |
| B. Standard Practices Manual | D. Service Bulletins |

4. Accompanies their products and contains recommended practices when using their products.

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|------------------------------|---------------------------------------|
| A. Illustrated Parts Catalog | C. Manufacturer's Instructions |
| B. Standard Practices Manual | D. Service Bulletins |

REVIEW ANSWERS

Chapter 3: Selection of Hand Tools

Read the questions below and provide the correct answers.

1. Which of the following statements are true when using a hammer?

A.	When striking a blow with a hammer or mallet, use your forearm as an extension of the handle.
B.	Bend your elbow, not your wrist.
C.	Strike the work surface squarely with the full face of the hammer.
D.	All of the above.

2. Select the most popular hammer among aerospace propulsion technicians for striking chisels and punches.

A.	Claw hammer	C.	Ball peen hammer
B.	Riveting hammer	D.	Carpenter hammer

3. Screwdrivers are designed for only one purpose: loosening or tightening screws and screw-head style bolts.

A.	True
B.	False

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Chapter 3: Selection of Hand Tools (Cont'd)

4. Which of the following statements is true when selecting a screwdriver for a particular task?

A.	Select the largest size blade that fits within the screw slot when using a common screwdriver
B.	Reed & Prince screwdrivers are not interchangeable with Phillips-head screwdrivers.
C.	The Torq-set screwdriver is not interchangeable in application to a Phillips-head screwdriver.
D.	All of the above.

5. This type of plier set is most often used to hold small parts/hardware and make adjustments within hard-to-reach locations.

A.	Round nose	C.	Duck bill
B.	Needle nose	D.	Water pump

6. Constructed with dual driver tips placed at opposite ends of tool assembly, both ends of an offset screwdriver are bent at 45 degree angles with respect to tool handle shank.

A.	True
B.	False

REVIEW ANSWERS

Chapter 3: Selection of Hand Tools (Cont'd)

7. This file has three tapered single cut faces.

A.	Triangular File	C.	Flat File
B.	Swiss file	D.	Mill file

8. This tool is used to pinpoint the force of a hammer to a metal part to minimize damage.

A.	Punch	C.	File
B.	Screw Driver	D.	Drift

9. Punches are used for which of the following tasks?

A.	Locating the center of a drilling hole.
B.	Punching holes in sheet metal.
C.	Transferring hole patten locations in sheet metal.
D.	All of the above.

10. This wrench is made from six-sided hexagonal bars shaped into the letter "L."

A.	Crowfoot	C.	Crescent
B.	Allen	D.	Ford

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Chapter 4: Torque Procedures

Read the questions below and provide the correct answers.

1. **Once seated, all bolts are torqued to approximately ____ % of final torque in a uniform stagger.**

A.	97%	C.	25%
B.	75%	D.	40%

2. **When using crush-type gaskets or other parts that require a slow set between flanges, it is necessary to wait up to 30 minutes to apply final torque after initial torque has been applied.**

A.	True	B.	False
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3. **Which statement is correct with regard to torque indicating devices?**

A.	To verify accuracy, check the torque capacity of a torque wrench against another possessing an identical torque range.
B.	Check torque-indicating devices and calibrate on a regular basis.
C.	Torque fasteners to a torque setting that is equal to or greater than the adjusted setting of the torque wrench.

4. **Nuts tightened to recommended torque should not be loosened to permit insertion of lockwire or cotter pins.**

A.	True	B.	False
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5. **Which of the following statements is incorrect concerning torquing air and fluid line fittings?**

A.	Never use excessive force when aligning connectors.
B.	Make sure the gasket is seated before connecting.
C.	Do not over-torque to stop leakage from a joint.
D.	Make sure the tube doesn't twist when torquing tube coupling nuts.

REVIEW ANSWERS

Chapter 4: Torque Procedures (Cont'd)

6. **Which statement below is true with regard to tightening electrical connectors?**

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| A. | The presence of a red line on the receptacle shows that the electrical connector is fully engaged with the receptacle. |
| B. | Tightening of electrical connectors should be accomplished by metal slip joint pliers with serrated teeth; the teeth on the jaws allow for increased grip of the threaded connector collar. |
| C. | Electrical connectors are normally inspected during removal and need not be re-inspected prior to installation. |
| D. | Tightening of electrical connectors can be accomplished by soft-jawed pliers if need be. |

7. **Which of the statements below is false?**

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| A. | Torque correction is not required when using a standard crowfoot attachment. |
| B. | When an extension of 2 inches or less is installed on a torque wrench at 180 degrees to the handle, torque nuts to minimum range. |
| C. | There are no specified limits for tightening nuts if an extension is installed at 90 degrees to the handle, or if you are using an axial extension. |

8. **Final torque values depend on whether a lubricant is applied to the threads of a fastener.**

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| A. | True | B. | False |
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REVIEW ANSWERS

Chapter 5: Locking Devices

Read the questions below and provide the correct answers.

1. Which statement below is incorrect when applying torque to a castellated nut just before cotter pin installation?

A.	If nut slot and bolt shank hole do not align before maximum torque is exceeded, loosen nut just enough to align slot with hole in bolt shank.
B.	Tighten nut until slot aligns with hole in the bolt shank, taking care not to exceed the maximum torque range value.
C.	Initial torque should be to the low side of prescribed torque range.

2. It is permissible to re-use cotter pins for one additional task after removal from a component.

A.	True	B.	False
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3. Which statement below is incorrect with regard to using cup washers as a locking device?

A.	Cup washers can be used only once.
B.	Cup washers must be positioned so the tab of the washer is in the loosening direction of the fastener being secured.
C.	Cup washers should not move during assembly.
D.	Only one crack is permissible in a cup washer after forming the indentations needed to secure hardware.

4. Key washers must have ____ or more of width as measured at the base of the key.

A.	25%	C.	75%
B.	50%	D.	95%

REVIEW ANSWERS

Chapter 5: Locking Devices (Cont'd)

5. Which statement below is *incorrect* with regard to correct application of lock wire?

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| A. | Do not increase or decrease the torque on parts to align the wire holes, use another unit to correctly align the wire holes within the specified torque limits. |
| B. | Maximum span of safety wire must be 6 inches (152.4mm). |
| C. | Do not lock more than six units in a series with a continuous length of wire. |
| D. | Safety wire must not get any nicks, kinks, or damage during installation. |

6. When completing a lock wire procedure, you should cut off excess wire after the last unit in a series, leaving at least _____ twists.

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|----|---|----|---|
| A. | 2 | C. | 3 |
| B. | 5 | D. | 7 |

7. As with lock wire, you should not increase or decrease the torque on engine hardware to correctly align holes for the application of safety cable.

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| A. | True |
| B. | False |

8. Unless otherwise specified within applicable technical data, install safety cable in _____ or _____ bolt patterns.

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|----|--------|----|--------|
| A. | 2 or 3 | C. | 4 or 5 |
| B. | 3 or 4 | D. | 5 or 6 |

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