

Traceability

Quiz-Answer Key

Passing score = 80% [Answers in RED]

Select the correct answer.

1. T F ISO/IEC 17025 does not require laboratories to have calibration systems in place. (Answer: F)
2. T F ISO Guide 34 specifies requirements for reference material producers. (Answer: T)
3. T F Calibration laboratories do not need to establish traceability. (Answer: F)
4. T F Calibration laboratories must issue certificates that include measurement uncertainty. (Answer: T)
5. T F Traceability does not apply to instruments and equipment. (Answer: F)
6. T F Traceability can be referred to as a "calibration hierarchy". (Answer: T)
7. T F Calibration is the comparison of two measurement devices or systems, one of known uncertainty (reference standard) and one of unknown uncertainty (test equipment). (Answer: T)
8. Reference Standards include: (Answer: A)

A. Hard and non-consumable items	B. Liquid standards	C. Consumables	D. Proficiency testing materials
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9. Reference Materials include: (Answer: C)

A. Hard and non-consumable items	B. NIST traceable thermometers	C. Consumables	D. Weights
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10. Reference Standards should be: (Answer: D)

A. Traced to SI units	B. Used for calibration only to maintain accuracy and integrity	C. Calibrated by an ISO/IEC 17025 accredited body that can provide traceability	D. B and C
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11. Reference Materials should be: (Answer: A)

A. Traced to SI units	B. Used for calibration only to maintain accuracy and integrity	C. Calibrated by an ISO/IEC 17025 accredited body that can provide traceability	D. Made by the laboratory in-house for best results
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12. Intermediate checks need defined procedures and schedules for carrying out checks to maintain confidence in the calibration status of: (Answer: D)

A. Reference Standards and Materials	B. Primary and Working Standards	C. Transfer Standards	D. All of the choices
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