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ASQ CQI Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Metrology	26%	- Special Measurement Equipment • 1. Optical comparators (shadow graphs) • 2. Thread measuring wires • 3. Coordinate Measuring Machines (CMM) • 4. Surface plates and height standards • 5. Hardness testers - Common Measurement Tools • 1. Gauge blocks • 2. Dial indicators • 3. Calipers (dial, digital, vernier) • 4. Pin gauges, thread gauges, ring gauges • 5. Height gauges • 6. Micrometers (outside, inside, depth) - Calibration • 1. Calibration systems and schedules • 2. Traceability to national standards (NIST) • 3. Out-of-calibration procedures - Measurement Techniques • 1. Thread measurement • 2. Surface finish measurement • 3. Angular measurement • 4. Linear and dimensional measurement • 5. Gauge R&R (Repeatability and Reproducibility)

Topic 2: Quality Assurance	22%	- Quality Basics • 1. Customer-supplier relations • 2. Quality management systems (ISO 9001 overview) • 3. Cost of quality (prevention, appraisal, failure) - Statistical Process Control (SPC) • 1. Control charts (X-bar, R, p, c charts) • 2. Variables and attributes data • 3. Process capability (Cp, Cpk) - Quality Audits and Documentation • 1. Document control • 2. Audit types (internal, external, product, process) • 3. Record keeping and traceability - Root Cause Analysis and Corrective Action • 1. Corrective and Preventive Actions (CAPA) • 2. Material Review Board (MRB) • 3. Nonconforming product control • 4. 5 Whys, Fishbone diagrams
Topic 3: Technical Mathematics	19%	- Geometry • 1. Properties of circles, angles, and triangles • 2. Area, volume, and perimeter calculations • 3. Coordinate systems (polar, Cartesian) - Trigonometry • 1. Right triangle solutions • 2. Pythagorean theorem • 3. Trigonometric functions (sine, cosine, tangent) - Basic Shop Math • 1. Arithmetic operations (addition, subtraction, multiplication, division) • 2. Order of operations • 3. Fractions, decimals, and percentages - Algebra • 1. Ratio and proportion • 2. Transposition of formulas • 3. Linear equations - Measurement Systems • 1. Metric (SI) and Imperial (U.S. Customary) units • 2. Unit conversions

Topic 4: Inspection and Test	33%	- Nondestructive Testing (NDT) • 1. Liquid penetrant testing • 2. Visual inspection • 3. Magnetic particle testing - Inspection Planning and Processes • 1. Receiving Inspection • 2. In-Process Inspection (IPI) • 3. First Article Inspection (FAI) • 4. Final Inspection - Blueprint Reading • 1. Symbols and abbreviations • 2. Material and finish specifications • 3. Dimensioning and tolerancing (GD&T basics) • 4. Drawing types and views - Sampling • 1. Sampling concepts (lot, sample size) • 2. OC curves • 3. Sampling plans (ANSI/ASQ Z1.4, Z1.9) • 4. AQL (Acceptable Quality Level)
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>> ASQ CQI Interactive Course <<

ASQ - Accurate CQI - ASQ Certified Quality Inspector Interactive Course

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ASQ Certified Quality Inspector Sample Questions (Q90-Q95):

NEW QUESTION # 90

You are measuring a part with an angle callout of $38^{\circ} \pm 2^{\circ}$. Which of the following can be used for this measurement?

Response:

- A. V-block and distance indicator
- B. Sine bar, gage blocks, and surface gage
- C. Bevel protractor
- D. Sine plate and surface gage

Answer: C

NEW QUESTION # 91

You set up your surface gage support rods at a 90 degree angle and to be as short as possible to eliminate what type of error?

Response:

- A. Parallelism
- B. Cosine
- C. Parallax
- D. Cantilever effect

Answer: D

NEW QUESTION # 92

A caliper that is typically used at the mill to accept parts was sent out for calibration. After it came back, the calibration certificate indicated that the caliper was out of spec when it was received by the calibration service. What is the next step?

Response:

- A. Immediately place all product on hold and scrap
- B. Hold the operator responsible for using a caliper that was out of spec
- C. Throw the caliper out
- D. Hold a meeting with appropriate people to find out what impact this has on the product

Answer: D

NEW QUESTION # 93

An inspector is testing to see how well a part will withstand impact by a hard object. Which of these is the best test to use?

Response:

- A. Rockwell Hardness
- B. Optical comparator
- C. Tensile strength
- D. Metallography

Answer: A

NEW QUESTION # 94

What are the mean, median, and mode for the following sample?

6, 7, 8, 8, 10, 12

Response:

- A. Mean 8.5, Median 8.5, Mode 8
- B. Mean 8.5, Median 8, Mode 8
- C. Mean 10.2, Median 8, Mode 8
- D. Mean 8.5, Median 8.5, Mode 8.5

Answer: B

NEW QUESTION # 95

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