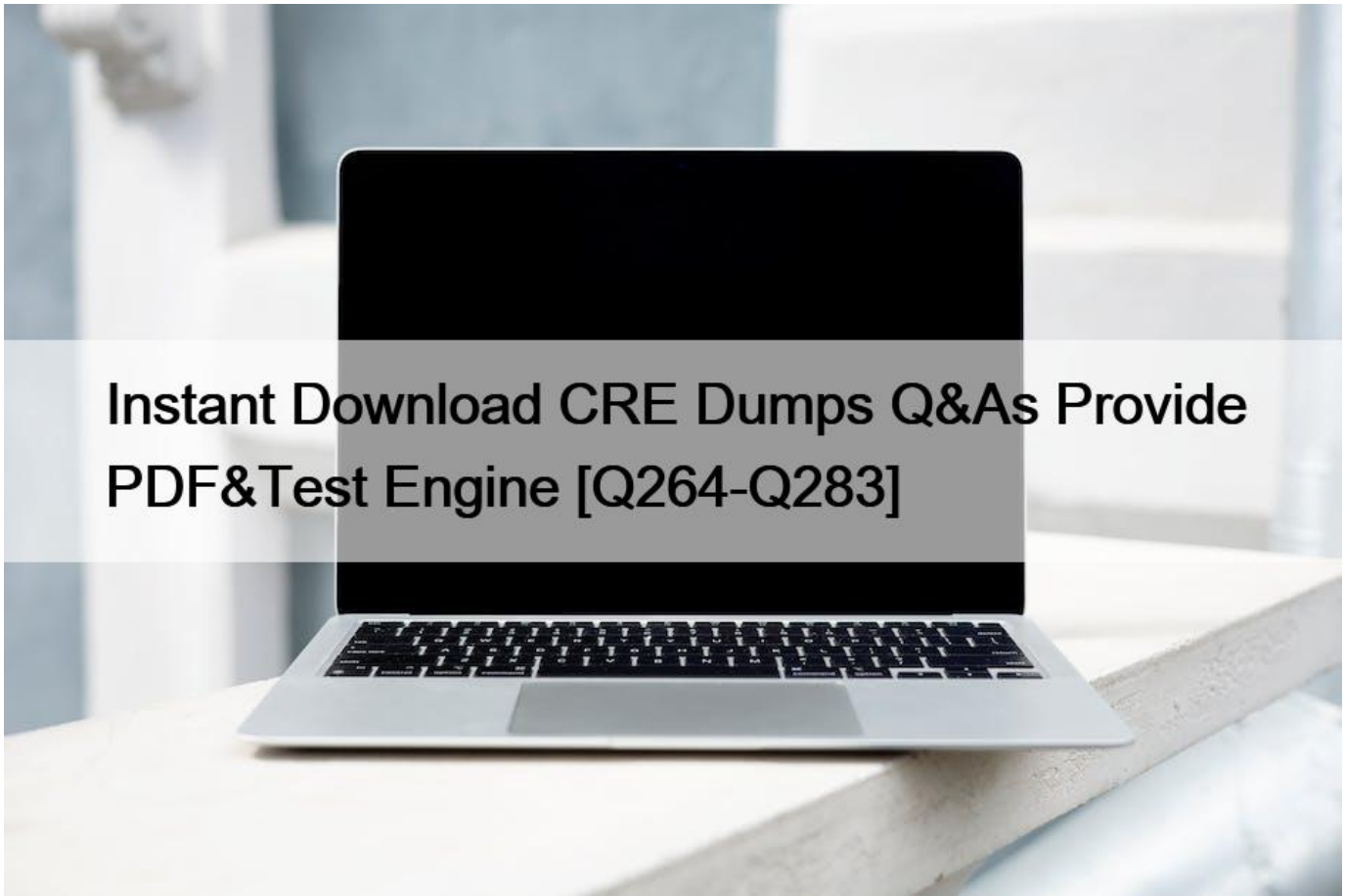


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ASQ CRE (Certified Reliability Engineer) Certification Exam is a globally recognized certification program that focuses on the principles and techniques of reliability engineering. Certified Reliability Engineer (CRE) certification program is designed for individuals who are seeking to enhance their knowledge and skills in the field of reliability engineering and demonstrate their expertise to employers and clients. The program covers a wide range of topics, including reliability theory, statistical analysis, quality control, and system engineering.

NO.264 When testing is establish failure rate data and reliability predictions, which of the following is NOT normally a feasible acceleration factor with respect to rated conditions?

Response:

- * Longer time.
- * Greater humidity.
- * Higher temperature.

- * Higher voltage.

NO.265 Typical statistical distributions or confidence limits can be determined for accelerated tests. In the case of a step-stress test, the proper estimated distribution would be which of the following?

Response:

- * Exponential
- * Weibull
- * Lognormal
- * None, not meaningful.

NO.266 Human factors field testing:

Response:

- * Should be carried out on a production model of the equipment.
- * Should demonstrate the capability of personnel to perform the required function.
- * Does not require a plan if military personnel are involved.
- * Must not be combined with engineering tests on the same equipment.

NO.267 If the plating time of a tube increases as the inside diameter decreases, then the correlation coefficient for the insider diameter versus plating time would be:

Response:

- * Between 0 and +1
- * Greater than 1
- * Between 0 and -1
- * Equal to 1

NO.268 A reliability test conducted during the pre-production stage is called

Response:

- * Failure analysis.
- * Acceptance test.
- * Qualification test.
- * Significance test.

NO.269 A 2 level 5 factor experiment is being conducted to optimize the reliability of an electronic control module. A half replicate of the standard full factorial experiment is proposed. The number of treatment combinations will be Response:

- * 10
- * 12
- * 16
- * 32

NO.270 The investment in automated test equipment is often justified under which of the following circumstances Response:

- * Numerous tests must be performed.
- * Repair times must be short.
- * Conformance records are required.
- * Traceable records are required.

NO.271 A failure that leaves the system fully functional is:

Response:

- * A chronic failure.
- * A nuisance failure.
- * A minor failure.
- * A major failure.

NO.272 There is a subtle difference between a standard parts program and a standardization program. A standardization program tends to emphasize:

Response:

- * Limited part numbers.
- * Limited suppliers.
- * Limited sizes.
- * Limited part applications.

NO.273 Weibull analysis is a way to quickly and easily analyze field data or interval test data. The limits of the use of this technique include having a good estimate for the:

Response:

- * Shape parameter.
- * MTBF.
- * Expected life.
- * Average quality of the production lots.

NO.274 Root cause failure analysis is necessary to identify and correct basis problems. Usually a priority of failure mode is established. This classic or traditional approach to improvement results in which of the following?

Response:

- * Zero defects.
- * Defect reduction.
- * Catastrophic problem reduction.
- * Special cause reduction.

NO.275 The techniques of design control are:

Response:

- * Unique to the aerospace industry.
- * Too expensive for general application.
- * Applicable generally throughout industry.
- * Limited to hardware-manufacturing enterprises.

NO.276 The failure rate for an IC chip is 0.0023 per hour of operation. Calculate the MTBF given that the failure rate is constant.

Response:

- * 37.6 hrs
- * 43 hrs
- * 434.78 hrs
- * 486 hrs

NO.277 If the reliability goal for a 4 – hour mission is 0.9999 for a complex system, what system MTBF is required?

Response:

- * 55 hours.
- * 2,500 hours.
- * 10,000 hours.
- * 40,000 hours.

NO.278 The first phase in the operation life history of a population of product units is typically called:

Response:

- * Debugging phase.
- * Wear out phase.
- * Transition phase.
- * Chance failure phase.

NO.279 Risk management includes which of the following?

- I. Integration of risk evaluation in all design phases.
- II. Knowledge and consideration of liability law.
- III. Adopting procedures, policies and practices to control risks.
- IV. Providing product labels and operator manuals where appropriate.

Response:

- * I, II and III only
- * II and IV only
- * I, II and IV only
- * I, II, III and IV

NO.280 Which of the following statement is TRUE about maintainability?

Response:

- * It should be initiated during the logistics review.
- * It should be initiated during the design stage.
- * It is primarily a field service issue.
- * It is primarily a contractual requirements.

NO.281 Which of the following will provide the BEST information for determining the value of reliability activities?

Response:

- * Return on investment.
- * Weibull analysis report
- * Daily SPC report.
- * Corrective action closure reports.

NO.282 All of the following techniques are appropriate for reliability apportionment EXCEPT Response:

- * Duane modeling.

- * Basic weighted series.
- * Advisory group on reliability of electronic equipment (AGREE) allocation methods.
- * Part count.

NO.283 In the binomial expression:

Response:

- * The sum of the exponents of each term after expansion is equal to the sample size.
- * The sum of the coefficients of each term after expansion is equal to the sample size.
- * The sum of the exponents of all the terms after expansion is equal to the sample size.
- * The sum of the exponents after expansion has no relation to the sample size.

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