

Certified Reliability Engineer Practice Test Questions and Answers

1. What does MTBF stand for in reliability engineering?

- A) Mean Time Before Failure
- B) Mean Time Between Failures
- C) Maximum Time Between Failures
- D) Minimum Time Before Failure

2. Which distribution is commonly used to model the failure rate of electronic components during their useful life?

- A) Normal distribution
- B) Exponential distribution
- C) Weibull distribution
- D) Poisson distribution

3. What is the primary purpose of a Failure Mode and Effects Analysis (FMEA)?

- A) To calculate system costs
- B) To identify potential failure modes and their consequences
- C) To design marketing strategies
- D) To train employees

4. In reliability engineering, what does the bathtub curve represent?

- A) Manufacturing costs over time
- B) Failure rate as a function of time
- C) Product demand cycles
- D) Employee productivity patterns

Answers: 1-B 2-B 3-B 4-B

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