

# Certified Maintenance and Reliability Professional VS-1108



# Certified Maintenance and Reliability Professional

### Certification Code VS-1108

Vskills certification for Maintenance and Reliability Professional assesses the candidate as per the company's need for quality assurance and reliability of their products. The certification tests the candidates on various areas in product safety, statistics, probability, statistical inference, FMEA, FMECA, FTA, reliability modeling and prediction, development and product testing, maintainability analysis and data collection and analysis tools.

### Why should one take this certification?

This Course is intended for professionals and graduates wanting to excel in their chosen areas. It is also well suited for those who are already working and would like to take certification for further career progression.

Earning Vskills Maintenance and Reliability Professional Certification can help candidate differentiate in today's competitive job market, broaden their employment opportunities by displaying their advanced skills, and result in higher earning potential.

## Who will benefit from taking this certification?

Job seekers looking to find employment in Maintenance and Reliability Professional or recovery departments of various companies, students generally wanting to improve their skill set and make their CV stronger and existing employees looking for a better role can prove their employers the value of their skills through this certification.

## Test Details

- **Duration:** 60 minutes
- No. of questions: 50
- Maximum marks: 50, Passing marks: 25 (50%)

There is no negative marking in this module.

### Fee Structure

Rs. 4,500/- (Includes all taxes) \*

\*Fees may change without prior notice, please refer <u>http://www.vskills.in</u> for updated fees

### Companies that hire Vskills Maintenance and Reliability Professionals

Maintenance and Reliability Professionals are in great demand. Companies specializing in manufacturing and production or reliability assessment are constantly hiring skilled reliability professionals. Various public and private companies also need Maintenance and Reliability Professional for their quality assurance departments.

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### 1. Strategic Management

- 1.1 Reliability Benefits
- 1.2 Quality and Reliability
- 1.3 Customer Needs Assessment
- 1.4 Project Management

### 2. Reliability Program Management

- 2.1 Reliability Program Basics
- 2.2 Product Life Cycle and Cost
- 2.3 Design Evaluation
- 2.4 Reliability Training Program

### 3. Product Safety and Liability

- 3.1 Ethical Issues
- 3.2 System Safety Program

### 4. Statistics and Probability

- 4.1 Basic Terminology
- 4.2 Probability Distribution
- 4.3 Statistical Process Control

### 5. Statistical Inference

- 5.1 Parametric Point and Interval Estimates
- 5.2 Statistical Interval Estimates
- 5.3 Hypothesis Testing
- 5.4 Bayesian Technique

### 6. Reliability Design Techniques

6.1 Use Factors
6.2 FMEA
6.3 FMECA
6.4 FTA
6.5 Robust Design
6.6 DFX
6.7 FRACAS

### 7. Parts and Systems Management

7.1 Selection and Control7.2 Establishing Specifications

## 8. Reliability Modeling

8.1 Block Diagrams and Models

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## Certified Maintenance and Reliability Professional

#### 8.2 Simulation Techniques

#### 9. Reliability Predictions

9.1 Part Count Prediction and Stress Analysis

9.2 Reliability Predictions

9.3 Reliability Allocation

#### 10. Reliability Test Planning

10.1 Test Planning10.2 HALT Test10.3 HASS10.4 Reliability Test Types10.5 Test Environment Considerations

#### 11. Development Testing

- 11.1 Accelerated Life Tests
- 11.2 Step-Stress Testing
- 11.3 Reliability Growth Testing
- 11.4 Software Testing

#### 12. Product Testing

12.1 Demonstration Testing12.2 PRAT12.3 Stress and Attribute Testing

### 13. Maintainability Management

- 13.1 Planning
- 13.2 Maintenance Strategies and Allocation
- 13.3 Availability Tradeoffs

### 14. Maintainability Analysis

14.1 Maintenance Time Distributions14.2 PM Analysis14.3 CM Analysis14.4 Testability

### 15. Data Collection

15.1 Data Types and Sources15.2 Collection Methods15.3 Data Management

### 16. Data Processing

16.1 Summarization16.2 Preventive and Corrective Action16.3 Effectiveness Measure

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- **17.** <u>Reliability Management</u>17.1 Reliability Management Basics17.2 Corporate Reliability Policy
- 17.3 Integrated Reliability Program
- 17.4 Reliability and Cost
- 17.5 ISI and BIS
- 17.6 Law and Reliability

## Sample Questions

### Which of the following is true?

A. Longer scales tend to have lower internal reliability and lower reliability over time.

B. Shorter scales tend to have lower internal reliability but higher reliability over time.

C. Shorter scales tend to have greater internal reliability but lower reliability over time.

D. Longer scales tend to have higher internal reliability and lower reliability over time.

### 2. Alternate-form reliability is also known as?

- A. Test-retest reliability.
- B. Parallel forms
- C. Split-half reliability.
- D. Convergent reliability

#### 3. Using a properly calibrated set of bathroom scales to measure mood would be?

- A. Reliable but not valid
- B. Neither reliable nor valid.

C. Reliable and valid.

D. Valid but not reliable.

### 4. Why might test-retest reliability become less important?

A. If alternate-form reliability cannot be calculated.

B. If the concept being measured is not expected to be stable over time (e.g. mood).

C. If convergent validity was not high.

D. If participants become familiar with a test and all perform better on the second occasion.

# 5. If the content of a test looks as though it is measuring what it is supposed to, it is said to have high?

- A. Content validity.
- B. Ecological validity.
- C. Criterion validity.
- D. Face validity.

Answers: 1 (C), 2 (B), 3 (A), 4 (B), 5 (D)

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#### Certifications

### Accounting, Banking and Finance – Certified AML-KYC Compliance Officer

- Certified Business Accountant Certified Commercial Banker Certified Foreign Exchange Professional
- Certified GAAP Accounting Standards Professional
   Certified Financial Risk Management Professional
- Certified Merger and Acquisition Analyst
- Certified Tally 9.0 Professional
   Certified Treasury Market Professional
   Certified Wealth Manager

🕨 Big Data - Certified Hadoop and Mapreduce Professional

Cloud Computing

#### - Certified Cloud Computing Professional

Design – Certified Interior Designer

#### Digital Media

- Certified Social Media Marketing Professional Certified Inbound Marketing Professional
 Certified Digital Marketing Master

#### Foreign Trade

- Certified Export Import (Foreign Trade) Professional

#### > Health, Nutrition and Well Being Certified Fitness Instructo

Hospitality

 Certified Restaurant Team Member (Hospitality)

#### Human Resources

Certified HR Compensation Manager Certified HR Stafffing Manager - Certified Human Resources Manager - Certified Performance Appraisal Manager

#### Office Skills - Certified Data Entry Operator

- Certified Office Administrator

### Project Management Certified Project Management Professional

- Real Estate - Certified Real Estate Consultant

## Marketing Certified Marketing Manager

#### > Quality

- Certified Six Sigma Green Belt Professional
- Certified Six Sigma Black Belt Professional
   Certified TQM Professional

#### Logistics & Supply Chain Management

- Certified International Logistics Professional Certified Logistics & SCM Professional
- Certified Purchase Manager
- Certified Supply Chain Management Professional

- Legal
   Certified IPR & Legal Manager

  - Certified Labour Law Analyst
     Certified Business Law Analyst
     Certified Corporate Law Analyst

#### > Information Technology

- Certified ASP.NET Programmer
   Certified Basic Network Support Professional
- Certified Business Intelligence Professional
- Certified Core Java Developer
   Certified E-commerce Professional
   Certified IT Support Professional
- Certified PHP Professional
   Certified Selenium Professional
   Certified SEO Professional
- Certified Software Quality Assurance Professional

### Mobile Application Development – Certified Android Apps Developer

- Certified iPhone Apps Developer

#### Security

Certified Ethical Hacking and Security Professional
 Certified Network Security Professional

#### Management

Certified Corporate Goverance Professional
 Certified Corporate Social Responsibility Professional

#### Life Skills

 Certified Business Communication Specialist - Certified Public Relations Officer

#### Media

– Certified Advertising Manager - Certified Advertising Sales Professional

#### Sales, BPO

- Certified Sales Manager - Certified Telesales Executive

& many more job related certifications

Contact us at : **Vskills** 011-473 44 723 or info@vskills.in

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