EVALUATION CRITERIA

CRP certification will be based on a comprehensive evaluation program. An examination will be conducted on the last day for duration of 3 hrs. Participants will be evaluated on their conceptual understanding of the various Reliability techniques and overall involvement during the five day program. Candidates who qualify to the requisite percentage of marks will be awarded the CRP certificates.

NOTE

Participants are requested to **bring Scientific Calculator** for the training programme.

Comprehensive Course notes will be provided to the participants Working lunch, Tea and Snacks will be provided.

Participants have to make their own arrangements for accommodation.

SCHEDULE

Training program duration - 5 days (10.00 AM to 05.30 PM)
Registration (DAY ONE) - 09.45 to 10.00 A.M.

VENUE:

CENTRE FOR RELIABILITY, CHENNAI

LANDMARK: SRP TOOLS Junction & Bus Stop, RAJIV GANDHI SALAI (OMR)

COURSE FEE

Rs.20,650/- (17,500/- Plus 18% GST Rs.3150/-) per participant which can be paid through Bharat Kosh in the first instance. In case it fails, payment can be made by way of NEFT/EFT/RTGS funds transfer. Our GSTIN is 33AAAGC0894D1ZV and SAC Code is 998349.

IMPORTANT NOTICE

NO INCOME TAX shall be deducted at source for any payment made to Centre For Reliability, Government of India, in terms of SECTION 196 OF INCOME TAX ACT, 1961.

ORGANIZATIONS PARTICIPATED

BEL, HPCL, MRPL-ONGC, IGCAR, C-DAC CRL, IOC, HAL, MECON, RDSO, DRDO, NIOT, NPOL, NSTL, NTG, DGQA, NPCIL, Konkan Railway, Pricol, NLCL, LMW, SAC, NRSA, VSSC, DRDL, DLRL, TCS, ECIL, IIPM, NTPC, L&T, ISPAT, HCL Technologies, HBLNIFE, Kernex Microsystems, Merlinhawk Aerospace Industries, Mahindra & Mahindra, Whirlpool, Crompton Greaves, FAIVELY, Cummins, TAFE, TVS Electronics, INTEL, Luminous Power Tech. Ltd., Centum Electronics, Individual Professionals, Quality and Reliability Consultants from India and Abroad have also participated in this program.







FIVE DAY TRAINING PROGRAMME

CERTIFIED RELIABILITY PROFESSIONAL (CRP)

Date: 30-31 Jan & 01-03 Feb 2023

at CFR Chennai (106th Batch)

Conducted by

CENTRE FOR RELIABILITY

STQC Directorate

Ministry of Electronics & Information Technology (MeitY)

Government of India

VSI Estate, Near Lattice Bridge, Thiruvanmiyur Chennai – 600041

Phone: 24547798/99/89/00 Email: cfr@stqc.gov.in

Website: https://www.stqc.gov.in

INTRODUCTION

Quality and Reliability of a product or a service is essential for very survival of the Organization. Every organization is striving hard to continuously improve the quality and reliability of their products and in-turn their customer base. There is a strong need for a work force proficient in the principles and practices of reliability engineering in every organization in order to create a brand image for the product through designing for reliability.

Proficiency in application of Reliability Tools and Techniques is a key to the progress of any organization. A Certified Reliability Professional will be able to achieve the Reliability goals set by the Organization for various projects by implementing the tools and techniques learnt in this training programme. Certification is a mark of excellence. Certification is an investment in the career of the employees and in the future of that organization.

Centre For Reliability (CFR) has designed a five-day exhaustive training program on Reliability Engineering Tools and Techniques for professionals from industry and user organizations. The program focuses on all the essential topics in the area of Reliability Engineering, such as Reliability Prediction, Design Reliability Assessment & Improvement, Reliability Testing & Screening and Maintainability & Availability of the product. The body of knowledge is based on the Certified Reliability Engineer (CRE) program conducted by American Society for Quality (ASQ), USA. An examination will be conducted at the end of the program and successful candidates will be issued Certified Reliability Professional (CRP) Certificate.

OBJECTIVE

- To impart knowledge to the participants in the field of Product Reliability, Availability, Maintainability and Safety.
- To certify the expertise of professionals in the area of Reliability Engineering.

BENEFITS TO THE PARTICIPANTS AND ORGANISATION

A CRP is an asset to the organization Certification is a mark of Excellence Widens customer base Reduction in warranty cost Higher reputation and market value Will have an edge over other companies

TOPICS

1. Design Reliability Techniques

- 1. Reliability Engineering- Overview
- 2. Reliability Prediction (Parts Count and Parts Stress Method)
- 3. Failure Mode Effects & Criticality Analysis (FMEA & CA)
- 4. Fault Tree Analysis (FTA)

2. Reliability Statistics

- 1. Reliability Statistics
- 2. Life Time Distributions
- 3. Reliability Characteristics Estimation

3. Reliability Testing

- 1. Design Reliability Development Testing (HALT, HASS, Burn-in, FRACAS)
- 2. Reliability Demonstration Testing (Compliance, Determination, MTBF Range Determination)

4. Accelerated Reliability Testing

- 1. Accelerated Reliability Test Models
- 2. Reliability Parameter Estimation
- 3. Accelerated Life Test and Analysis

5. Life Data Analysis

- 1. Field failure Data Analysis
- 2. Warranty determination and Analysis

6. Maintainability and RCM

- 1. Maintainability Prediction
- 2. Reliability Centered Maintenance

FACULTY

Faculty are from CFR Chennai, who are professional engineers trained in India & abroad. Each faculty has rich experience in handling projects for more than 28 years. The faculty are Certified Reliability Engineers (CRE) from ASQ, USA.

WHO SHOULD ATTEND

System & Design Engineers, Quality & Reliability Professionals, Production & Maintenance Managers, freelance Quality & Reliability consultants, Budding Engineers and Research scholars can participate in this program.

METHODOLOGY

Intensive Lectures, highly interactive sessions and case studies on various topics on Reliability Engineering