

Electronics Mfg Operational Excellence (EMOE)

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Trainer's Profile

Shrikant S. Borkar

- DIE, 6Sigma Black Belt , Subject Matter Expert (EMS) for ESSCI
- 30 Years of Experience in Electronics manufacturing field

-  **SHARP India Limited Pune.**
-  **International Limited Aurangabad**
-  **VIDEOCON Circuit (India) Pune**
-  **JABIL Pvt. Limited Pune**
-  **STAR ENGINEERS (I) PVT. LTD. MANUFACTURERS OF AUTO ELECTRONIC PRODUCTS Pune**
-  **SRV Telecom Pvt Limited Bangalore.**



- Audit Experience with Automotive Customer for APQP ,PPAP from **HONDA , BAJAJ, Piaggio Harley Davidson , FIAT .**
- Experience with Small Scale and medium Scale companies in vertical of plant operations in Pune and Bangalore .
- Corporate Trainer for **6 Sigma Green Belt , APQP, PPAP etc** with reputed **Quality Training Institute . IPC – 610G CIT Trainer**

Curriculum for Soldering Training

Course Description

One of the greatest challenge to today's Electronics industries or companies is how to change the way that employee work and raise their productivity and product quality. To achieve this, all employees must be well equipped with the right basic concepts knowledge, tools and method to work towards process.

The basic Soldering knowledge is also must for Electronics personnel at all level in organization.

Curriculum for Soldering Training

Course Objectives

This soldering Training has been defined in simple practical terms to help the Process and Quality control alike its basic practical approach deliberately set out to give guidance and instructions that are of use on shop floor.

Problems do occur and understanding soldering technique is one key in achieving Good Quality Products any manufacturing process will create the problems and objective of this training is to eliminate them in the area of manual and machine soldering .

Curriculum for Soldering Training

Course Content

MODULE.1 : PRACTICAL QUALITY CONTROL

- 1.1 Introduction**
- 1.2 Basic Theory**
- 1.3 Collecting Data**
- 1,4 Analysis and feedback**
- 1.5 Basic costing of defects**
- 1.6 Quality Control and Audit Points**

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MODULE 2 : Soldering Theory in practical Terms

2.1 Introduction

2.2. Solder

2.3 Impurities

2.4 Fluxes

2.5 Definitions

2.6 Hand Soldering

2.7 Machine Soldering

2.8 Printed circuit points

2.9 Quality Control points

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MODULE 3 : Hand Soldering (SMT, THT)

- 3.1 Introduction
- 3.2 Basic Rules and preparation
- 3.3. Types of irons and Tips
- 3.4 Typical Good Joints
- 3.5. Soldering iron Maintenance and checks
- 3.6. Aids to soldering
- 3.7 Quality control points

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MODULE 4 : Flow Soldering Theory

- 4.1 Introducing the flow soldering machine**
- 4.2 Machine Basic operations**
- 4.3 General Operating Instructions**
- 4.4.Maintenance Guidelines**
- 4.5 Quality control Guidelines**

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MODULE 5 : Summary of Always and Nevers of Soldering

5.1 Introduction

5.2. Always Soldering (Do's)

5.3 Nevers soldering (Don't)

5,4 . Safety Aspects of Soldering

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MODULE 6 : Antistatic precautions

6.1 100 % Risk approach

6.2 Cost justification

6.3 Down time

6.4 Terminology and Definitions

6.5 Identification

6.6 Method of protections

6.7 Flow soldering Area (Including Vacuum pack)

6.8 Quality control points , ESD check lists

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**Questions and Answer and Closing Session
Documents (SOP's) Update Support**

- 1. Skill Matrix - Assessment for Soldering Skills**
- 2. ISO Training Records and Manufacturing Engineering Documents**
- 3. Feedback**

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Course Duration

2 days (16 hrs)

Methodology

The training will be conducted in the form of workshop, real life application with your factory in house data ,lectures, videos, case studies . It will be fully interactive and two way communication from the instructor and participants.

Note - Line operators will be focused on more practical Aspects of soldering principles and Defects Awareness as per Workmanship Standards

Target Audience

This session is suitable for all Soldering Operators supervisors, Manufacturing Engineering engineers , Sections In charge and hose who are interested to know basics of soldering