

# ZERO - DEFECT HAND SOLDERING

## DETAILS

Zero Defect Soldering' course is aimed at achieving acceptable solder joints in the electronic assemblies by addressing various operations involved.

The syllabus covers the Process, Tools and Material related causes and remedies during Handling, Storage, Pre-assembly, During Assembly and Post Assembly stages which possibly may contribute in defective Soldering.

## WHO CAN PARTICIPATE

Soldering Technician  
Supervisor

## BENEFITS OF PARTICIPATION

Defect free assembly  
Improved Productivity  
Reduced Warranty Failures  
Improved Customer Satisfaction

## MODE OF TRAINING

Instructor-led hands-on practical Training available through IPC India Skill Centre, Bengaluru/  
In-house training

## INSTRUCTOR

Master IPC Trainer (MIT) or Certified IPC Trainer (CIT)

## COMPANIES TO ATTEND

Suppliers to Defence, Aerospace, Automotive, Medical & Industrial

## SYLLABUS

Zero defect introduction/Overview	Soldering defects
Material and process selection	Soldering defects and remedies
Handling, storage of ESDS	Defects and remedies – Hand soldering
Handling, storage of MSD	Defects and remedies – SMD
Factors attributing to soldering defects	Defects and remedies – Wave soldering
Resistance soldering	Defects and remedies – Robotic Soldering
Induction soldering	Defects and remedies – Selective Soldering
Soldering defects/Anomalies	Demo Soldering Video
Prevention of Soldering defects/Anomalies	

**Duration: 1 full day (9 AM to 5.15 PM)**

## Schedule for Zero Defect Soldering

Session No	Session Name	Duration	Time	Description	
<b>1</b>	Introduction	0:30	9.00 – 9.30 AM	Introduction of participants and IPC Standards	
	Overview	0:15	9.30 – 9.45 AM	General overview of the course	
<b>Break 0:15 mins</b>					
<b>2</b>	a. Factors attributing to Soldering Defects	3:00	10.00 AM – 1 PM	Presentation and Video	
	b. Prevention of Soldering Defects/Anomalies				
<b>Break 0:45 mins</b>					
<b>3</b>	Practical	Student practice	3:15	1:45 – 5:00 PM	Hand on Practice including demo
			0:15	5:00 – 5:15 PM	Q&A and Summarizing

### IMPORTANT NOTES

- GST applicable at 18% on the quoted price
- 100% payment to be made before 7 working days of the course commencement
- Minimum 10 & maximum 20 candidates/batch
- Company will share candidates name & details (as per IPC format) 7 days in advance before commencement of the course
- Session can be organized on Saturdays
- Participation letter shall be provided to the candidates on IPC India letterhead

**For details contact to :**

**[www.ipc.org/ipc-india-regional-team](http://www.ipc.org/ipc-india-regional-team)**

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