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**ABOUT THE PRESENTER**  
Leo Lambert  
Vice President,  
Technical Director

## Welcome to the **EPTAC Webinar Series:** **Untangling Your Electronics Training and Certification Needs**

You are connected to our live presentation delivered via the internet.  
The webinar will begin shortly.



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## Attendee Quick Reference

- You can ask questions by typing text directly to the presenter using the “Question and Answer” box

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Once you have joined our Webinar, you will see this GoToWebinar Control Panel and Grab Tab. The control panel contains three panes that can be expanded or collapsed by clicking the arrow on the left side of each pane.

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A screenshot of the GoToWebinar Control Panel interface. The interface is divided into three main sections: 'My Details', 'Webinar Info', and 'Question and Answer'. The 'My Details' section shows the attendee's name 'Anson Barr (Me)'. The 'Webinar Info' section displays the webinar title 'Give Punch to Online Presentations', a registration link, and contact information. The 'Question and Answer' section includes a 'Question and Answer Log' and a text input field for asking questions. A 'Send' button is located at the bottom of the 'Question and Answer' section. Red lines connect the text descriptions on the left to the corresponding sections in the screenshot.

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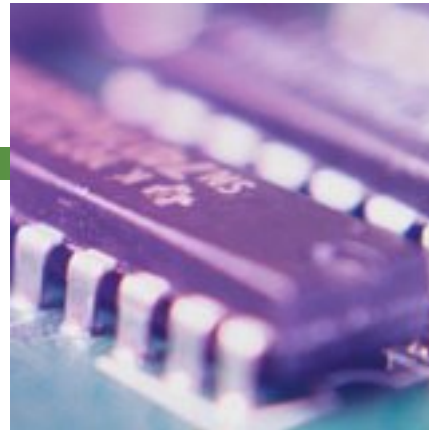


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# Untangling Your Electronics Training and Certification Needs

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## Questions We Try To Answer

- I need solder training, can you help me out?
- My people need to be certified, do I take 001, 610 or what?
- Does 610 cover cables, my customers wants to build cables, but my people are certified to 610? What do I do?
- Who offers plant certifications to any of these specifications?





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## Specification Training Programs

- All IPC certifications belong to the individuals taking the programs
  - They are personal and portable certifications
- The programs cover both knowledge and skills based information and demonstrations



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## Specification Training Programs

- IPC has two types of programs
  - CIT
  - CIS
- Specifications with Training Programs
  - J-STD-001, IPC-A-610, IPC-A-600, WHMA-A-620, IPC-7711/21,

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## **J-STD-001, Requirements for Soldered Electrical and Electronic Assemblies**

This Specification covers the process and product requirements to make a quality solder joint.

Core topical subjects:

- How to select and set up your soldering materials
- How to make a good solder joint
- How to inspect the final solder joints



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## J-STD-001

- Who should attend?
  - People who have demonstrated soldering skills as they will have to demonstrate those skills in this class.
  - Operators can attend a modular version of this program
  - Trainers cover the entire document





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## ***IPC-A-610, Acceptability of Electronic Assemblies***

- This documents contains visual representations of what good solder joints look like in addition to assembly criteria, hardware installation, terminal connections, through hole and surface mount component mounting, laminate and assembly criteria, discrete wiring, markings, high power requirements, etc.



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## IPC-A-610

- Who should attend?
  - Inspectors, Lead People, Group Leaders, Engineers, Operators and Technical Staff
- What will they learn?
  - The Target, Acceptable and Reject Conditions of various state of electronic assembly

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## ***IPC/WHMA-A-620, Requirements and Acceptance for Cable and Wire Harness Assemblies***

- This document was generated with the support of the Wire Harness Manufacturing Association covering various types of cable requirements from wire preparation, crimp and solder terminations, molding, marking and labeling, wire bundle securing, coax to solderless wire wrap.



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## IPC/WHMA-A-620

- Who should attend;
  - Operators, inspectors, technical staff who have to make decisions based upon acceptance or rejection criteria for incoming or outgoing product
- What will they learn:
  - The subject material previously discussed regarding the fabrication and assembly of cable and harness assemblies.
  - The EPTAC additional offering is a one day hands on program where the attendees will build a cable based upon their learning's from the previous days in class.





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## ***IPC-A-600, Acceptability of Printed Boards***

- This is a raw boards inspection document, providing acceptance criteria for incoming and fabrication processes.
- It is based upon the IPC-6010 series documents and in particular IPC-6012, *Qualification and Performance Specification for Rigid Printed Boards*.



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## IPC-A-600

- Who should attend?
  - Any and all people involve with buying, using and building printed circuit boards.
- What will they learn?
  - The course covers the basic board information along with external and internal requirements along with flexible and flush board requirements.



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## ***IPC-7711/7721, Rework, Modification and Repair of Electronic Assemblies***

- This program covers techniques for reworking and repairing through hole and surface mount technology products.
- Includes procedures to repair and modify printed boards and assemblies.

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## IPC-7711/7721

- Who Should attend?
  - The program provides information and manual skills necessary for operators who will return the products to operational levels.
- What will they learn?
  - Through hole and surface mount component removal techniques
  - Printed wiring board repair methods.

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## EPTAC's Hand Soldering for Operators

- Based upon IPC-J-STD-001 and introduces the basics of soldering
  - Wires and terminals
  - Through Hole components
  - Surface mount components
  - Rework

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## EPTAC's Hand Soldering for Operators

- Who Should attend?
  - All new employees who will be soldering
  - People with marginal skills
  - People wanting to improve their soldering skills or refresh their techniques

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## EPTAC's WEB Page

- Check the web page for all the programs  
<http://www.eptac.com/training.htm>
- Fiber optics training also available
- Customized programs designed and developed for unique applications

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## Further Information

For questions regarding this webinar,  
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[leo@eptac.com](mailto:leo@eptac.com)

For information on any of EPTAC's or IPC's  
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