

Workforce Development

National Electronics Manufacturing Center of Excellence



ACI Technologies offers courses in electronics manufacturing, IPC certifications, skills, and professional advancement. These courses are available for all levels of the electronics manufacturing workforce and Department of Defense personnel. Through the utilization of hands-on training on actual production equipment, these courses give the student the tools and techniques needed to increase efficiency in the workplace.

As an Authorized IPC Training Center, ACI employs personnel that are Master IPC Trainers and Certified IPC Trainers for IPC inspection standards. Training and certification is available for those who wish to become a Certified IPC Trainer (CIT) for the following courses: IPC J-STD-001, IPC A-610, IPC 7711/7721, IPC/WHMA A-620, and IPC J-STD-001 Space Addendum. Training and certification is also offered for those who wish to become a Certified IPC Specialist (CIS) for the following courses: IPC J-STD-001, IPC A-610, IPC 7711/7721, IPC/WHMA A-620, and IPC J-STD-001 Space Addendum.

- ***Instructor, Inspector and Operator Certification Courses (IPC)***
- ***Comprehensive Course on the Entire Electronics Manufacturing Process (Boot Camp)***
- ***Electronics Manufacturing Skill Based Courses***
- ***Continuing Professional Advancement Courses for Engineers***
- ***Customized Curriculum Development***
- ***Distance (Online) Learning via the Internet***

All of the CIT courses above, the IPC/WHMA A-620 CIS, and the IPC 7711/7721 CIS courses are offered on regular intervals. Each course can also be conducted at a client's location upon request. The IPC-developed training materials

are provided for successful CIT candidates so they can perform CIS training and certification for any organization.

The instructors at ACI are also engineers and technicians possessing a wide variety of experience in the electronics manufacturing industry. When combined with the benefits of an on-site manufacturing factory featuring current generation electronics assembly equipment, an ideal setting exists for students. They learn through lectures and presentations, classroom workstations equipped with the tools to refine hands-on skills as well as in the factory where automated machines and assembly line processes are occurring. There is over 36,000 square feet of modern office, laboratory and factory space, conveniently located adjacent to the Philadelphia International Airport.

ACI strives to ensure that every course conducted, regardless of content or training location, focuses on the successful performance of the skills and knowledge required in today's working environment. With technology increasing at an exponential rate, your company must stay current with technological advances in order to exist in the rapidly changing electronics industry.

Whether your company seeks to be more competitive through training in industry specifications, your own internal specifications, or by providing your employees with the proper engineering or skills-based training, ACI is prepared to meet the daily training challenges that your organization encounters.

Can't afford to be out of the facility for a couple of days to attend the lecture? With the online learning program at ACI, training comes to you. Individuals can maintain their technical skills and product knowledge in the intensely competitive electronic industry via the internet.

For your convenience, try our online course registration system for regularly scheduled courses. All transactions are fast and secure, allowing you to get moving on your electronics manufacturing training solutions faster than ever before.

2021 Training Schedule by Month

National Electronics Manufacturing Center of Excellence



January

course	date
Electronics Manufacturing Processes (Boot Camp A)	4-8
IPC A-610 CIT Certification	11-14
Advanced Electronics Manufacturing (Boot Camp B)	11-15
Fundamentals of Selective Soldering	19
Guide to Modern Electronics Manufacturing	19
IPC J-STD-001 CIT Recertification	20-21
IPC J-STD-001 Space Addendum CIT Certification	22
IPC A-610 CIT Recertification	25-26
IPC/WHMA A-620 CIT Recertification	27-28
IPC CIT Challenge and CSE Testing	29

February

IPC/WHMA A-620 CIS (Modules 1-7)*	1-3
IPC 7711/7721 CIT Certification	1-5
Counterfeit Component	4
IPC J-STD-001 CIT Certification	8-12
Design for Manufacturability	16-17
IPC 7711/7721 CIS (T/H and SMT Rework; Modules 1, 4-7)	16-19
IPC CIT Challenge and CSE Testing	19
IPC A-610 CIT Recertification	22-23
IPC J-STD-001 CIT Recertification	24-25
IPC J-STD-001 Space Addendum CIT Certification	26

March

BGA Inspection, Rework and Repair	1
IPC/WHMA A-620 CIT Certification	2-5
Solder Techniques for Electronic Assemblies	5
IPC A-610 CIT Certification	8-11
Electronics Manufacturing Mini Camp	9-11
Failure Analysis and Reliability Testing	15-16
IPC J-STD-001 CIT Recertification	17-18
IPC J-STD-001 Space Addendum CIT Certification	19
IPC/WHMA A-620 CIT Recertification	22-23
Profiling and Solder Reflow	24-25
IPC CIT Challenge and CSE Testing	26
IPC 7711/7721 CIT Recertification	29-30
IPC 7711/7721 CIS (Repair of PCBs; Modules 1, 3, 9-10)	31 - April 2

April

course	date
Fundamentals of Selective Soldering	1
IPC A-610 CIT Recertification	5-6
IPC J-STD-001 CIT Recertification	7-8
IPC J-STD-001 Space Addendum CIT Certification	9
Electronics Manufacturing Processes (Boot Camp A)	12-16
IPC CIT Challenge and CSE Testing	16
IPC/WHMA A-620 CIT Recertification	19-20
Advanced Electronics Manufacturing (Boot Camp B)	19-23
IPC J-STD-001 CIT Certification	26-30

May

Guide to Modern Electronics Manufacturing	3
IPC A-610 CIT Certification	3-6
IPC 7711/7721 CIS (T/H and SMT Rework; Modules 1, 4-7)	4-7
IPC A-610 CIT Recertification	10-11
IPC J-STD-001 CIT Recertification	12-13
IPC J-STD-001 Space Addendum CIT Certification	14
IPC 7711/7721 CIT Certification	17-21
IPC 7711/7721 CIT Recertification	24-25
IPC/WHMA A-620 CIT Certification	24-27
Solder Techniques for Electronic Assemblies	26
BGA Inspection, Rework and Repair	27
IPC CIT Challenge and CSE Testing	28

June

IPC/WHMA A-620 CIS (Modules 1-7)*	1-3
Fundamentals of Selective Soldering	3
IPC J-STD-001 CIT Certification	7-11
IPC A-610 CIT Recertification	14-15
Design for Manufacturability	16-17
IPC J-STD-001 CIT Recertification	16-17
IPC J-STD-001 Space Addendum CIT Certification	18
Electronics Manufacturing Mini Camp	21-23
Counterfeit Component	24
IPC CIT Challenge and CSE Testing	25
Failure Analysis and Reliability Testing	28-29
IPC 7711/7721 CIS (Repair of PCBs; Modules 1, 3, 9-10)	30 - July 2

July

course	date
IPC/WHMA A-620 CIT Certification.....	6-9
Profiling and Solder Reflow.....	7-8
Solder Techniques for Electronic Assemblies	9
IPC A-610 CIT Certification	12-15
IPC CIT Challenge and CSE Testing.....	16
BGA Inspection, Rework and Repair	16
IPC 7711/7721 CIS (T/H and SMT Rework; Modules 1, 4-7)	19-22
Electronics Manufacturing Processes (Boot Camp A)	19-23
IPC A-610 CIT Recertification	26-27
Advanced Electronics Manufacturing (Boot Camp B).....	26-30
IPC J-STD-001 CIT Recertification	28-29
IPC J-STD-001 Space Addendum CIT Certification.....	30

August

IPC/WHMA A-620 CIT Recertification.....	2-3
Failure Analysis and Reliability Testing	4-5
IPC/WHMA A-620 CIS (Modules 1-7)*	9-11
IPC 7711/7721 CIT Certification.....	9-13
Guide to Modern Electronics Manufacturing.....	12
IPC CIT Challenge and CSE Testing.....	13
IPC J-STD-001 CIT Certification.....	16-20
Design for Manufacturability	23-24
IPC A-610 CIT Recertification	23-24
IPC J-STD-001 CIT Recertification	25-26
IPC J-STD-001 Space Addendum CIT Certification.....	27
IPC 7711/7721 CIT Recertification	30-31
Electronics Manufacturing Mini Camp	31 - September 2

September

IPC 7711/7721 CIS (Repair of PCBs; Modules 1, 3, 9-10).....	1-3
Fundamentals of Selective Soldering.....	8
BGA Inspection, Rework and Repair.....	9
IPC CIT Challenge and CSE Testing.....	10
IPC A-610 CIT Certification	13-16
IPC A-610 CIT Recertification	20-21
IPC J-STD-001 CIT Recertification.....	22-23
IPC J-STD-001 Space Addendum CIT Certification.....	24
Solder Techniques for Electronic Assemblies	27
Profiling and Solder Reflow.....	28-29
Counterfeit Component	30

October

course	date
IPC J-STD-001 CIT Certification	4-8
IPC/WHMA A-620 CIT Recertification	11-12
IPC 7711/7721 CIS (T/H and SMT Rework; Modules 1, 4-7)	11-14
Failure Analysis and Reliability Testing.....	13-14
IPC CIT Challenge and CSE Testing.....	15
Guide to Modern Electronics Manufacturing.....	15
IPC A-610 CIT Recertification	18-19
IPC J-STD-001 CIT Recertification	20-21
IPC J-STD-001 Space Addendum CIT Certification.....	22
IPC/WHMA A-620 CIT Certification.....	25-28
IPC 7711/7721 CIT Certification	25-29

November

Electronics Manufacturing Processes (Boot Camp A)	1-5
IPC/WHMA A-620 CIS (Modules 1-7)*	8-10
Advanced Electronics Manufacturing (Boot Camp B)	8-12
IPC A-610 CIT Certification	15-18
Solder Techniques for Electronic Assemblies	18
IPC CIT Challenge and CSE Testing.....	19
IPC A-610 CIT Recertification	22-23
IPC 7711/7721 CIT Recertification.....	29-30
Design for Manufacturability	29-30

December

IPC 7711/7721 CIS (Repair of PCBs; Modules 1, 3, 9-10).....	1-3
Electronics Manufacturing Mini Camp	6-8
IPC J-STD-001 CIT Certification	6-10
Profiling and Solder Reflow.....	13-14
IPC J-STD-001 CIT Recertification.....	15-16
IPC J-STD-001 Space Addendum CIT Certification	17
Fundamentals of Selective Soldering	17
IPC CIT Challenge and CSE Testing.....	20
BGA Inspection, Rework and Repair	21
Counterfeit Component	22

IPC CSE Training

CSE classes run on the same dates as their respective CIT Certification classes

*This course serves as both the initial certification as well as recertification training.

For course information and pricing, contact the Registrar at **610.362.1295** or via email to registrar@aciusa.org. Ask about additional availabilities for any course, custom courses, on-site and online training. For your convenience, try the online course registration system for regularly scheduled courses.

Electronics manufacturing assistance can be obtained by calling the Helpline at **610.362.1320** or via email to helpline@aciusa.org.

ACI is conveniently located next to the Philadelphia International Airport with plenty of free parking.

2021 Training Schedule by Course

National Electronics Manufacturing Center of Excellence



Electronics Manufacturing	Skills Based Training	IPC CIS/Operator	IPC CIT/Instructor Certification	IPC CIT/Instructor Recertification
Electronics Manufacturing Processes (Boot Camp A) January 4-8 April 12-16 July 19-23 November 1-5	BGA Inspection, Rework and Repair March 1 May 27 July 16 September 9 December 21	IPC/WHMA A-620 CIS (Modules 1-7)* February 1-3 June 1-3 August 9-11 November 8-10	IPC J-STD-001 CIT Certification February 8-12 April 26-30 June 7-11 August 16-20 October 4-8 December 6-10	IPC J-STD-001 CIT Recertification January 20-21 February 24-25 March 17-18 April 7-8 May 12-13 June 16-17 July 28-29 August 25-26 September 22-23 October 20-21 December 15-16
Advanced Electronics Manufacturing (Boot Camp B) January 11-15 April 19-23 July 26-30 November 8-12	Solder Techniques for Electronic Assemblies March 5 May 26 July 9 September 27 November 18	IPC 7711/7721 CIS T/H and SMT Rework (Modules 1, 4-7) February 16-19 May 4-7 July 19-22 October 11-14	IPC A-610 CIT Certification January 11-14 March 8-11 May 3-6 July 12-15 September 13-16 November 15-18	IPC A-610 CIT Recertification January 25-26 February 22-23 April 5-6 May 10-11 June 14-15 July 26-27 August 23-24 September 20-21 October 18-19 November 22-23
Electronics Manufacturing Mini Camp March 9-11 June 21-23 August 31 - September 2 December 6-8	Continuing Professional Advancement Counterfeit Component February 4 June 24 September 30 December 22 Design for Manufacturability February 16-17 June 16-17 August 23-24 November 29-30 Failure Analysis and Reliability Testing March 15-16 June 28-29 August 4-5 October 13-14 Lead Free Manufacturing Call for Availability	IPC 7711/7721 CIS Repair and Modification of PCBs (Modules 1, 3, 9-10) March 31 - April 2 June 30 - July 2 September 1-3 December 1-3 IPC J-STD-001 IPC A-610 IPC 7711/7721 Call for Availability	IPC 7711/7721 CIT Certification February 1-5 May 17-21 August 9-13 October 25-29 IPC/WHMA A-620 CIT Certification March 2-5 May 24-27 July 6-9 October 25-28 IPC J-STD-001 Space Addendum CIT Certification January 22 February 26 March 19 April 9 May 14 June 18 July 30 August 27 September 24 October 22 December 17	IPC A-610 CIT Recertification January 25-26 February 22-23 April 5-6 May 10-11 June 14-15 July 26-27 August 23-24 September 20-21 October 18-19 November 22-23 IPC 7711/7721 CIT Recertification March 29-30 May 24-25 August 30-31 November 29-30 IPC/WHMA A-620 CIT Recertification January 27-28 March 22-23 April 19-20 August 2-3 October 11-12
Fundamentals of Selective Soldering January 19 April 1 June 3 September 8 December 17		IPC CIT Challenge and CSE Testing January 29 February 19 March 26 April 16 May 28 June 25 July 16 August 13 September 10 October 15 November 19 December 20		IPC CSE Training CSE classes run on the same dates as their respective CIT Certification classes
Guide to Modern Electronics Manufacturing January 19 May 3 August 12 October 15				
Profiling and Solder Reflow March 24-25 July 7-8 September 28-29 December 13-14				

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