

# LEADER'S GUIDE FOR DVD-45C

## *Lead-Free Hand Soldering*

The Lead-Free Hand Soldering (DVD-45C) training / certification program has been developed to provide lead-free hand soldering certification for your operators and assembly technicians. Following is a description of this IPC training certification program.

The program is divided into three sections: *The Switch to Lead-Free, Soldering with Lead-Free Alloys* and *Lead-Free Solder Joint Evaluation* – accessible through the main menu interface at the beginning of the DVD.

All of the training and testing materials for this program are available for download over the Internet at: <http://training.ipc.org/dvd/45c/>  
The URL for these download materials is also printed on the face label of the DVD.

These training support materials include *Review Questions* for each section in the video. There is also a twenty-question *examination* and a printable certificate for students that score 70% or better on this test.

### **How to Use this Program**

This video training program is designed for continuous play – beginning at Section One of the DVD – although the Main Menu can be randomly accessed to meet your specific review needs. Below are our recommendations for how best to use the DVD and training materials to help insure that your students will pass the certification test.

### **Review**

After you *play* each section of the DVD, stop the video when appropriate and reinforce any information or specific requirements that are important to you.

When you complete each section, you have the option of asking the *Review Questions*. Note that some of the review questions can be used to teach *company-specific* information. In discussing each question, the group can develop a consensus answer. Or you can simply print out the review questions and allow the students to answer them individually.

### **Test and Certificates**

After you complete all of the sections, you can give the students the *IPC Training Certification Test* containing twenty multiple-choice questions. You may print as many copies of the *test* as necessary. Directions regarding how to take the test, how to mark answers, change answers, etc. are all provided on the first page of the test. Please review these directions with your students.

An *Answer Key* is also provided for grading the *test*. After you grade the tests, you may wish to return them to each student so they can review any incorrect answers.

A *color* version of an *IPC Training Certificate* is included on the DVD-45C download page. This .pdf certificate allows you to type in the names of all the students that pass the test - and print out individual color certificates. *Training Certificates* can be provided to students who obtain a passing grade of 70% (**14 correct answers**) or better on the final test.

### **CEUs**

In order to assign *continuing education units* to each student... measure the total training time in reviewing DVD-45C, group discussion and testing. Each one-hour increment of training translates into 0.1 CEU. Therefore, if you spend 2 hours in classroom training and evaluation, each student would earn 0.2 CEU. You may need to provide written documentation for student CEU records.

Thank you for purchasing this IPC training program. If you have any suggestions for future improvements, we'd like to hear from you.

Joel Kimmel  
DVD-45C Producer