

IS Training Courses

JUKI

JUKISmart Solutions



Utilization Course

Note: This course is only available to customers who have purchased the IS (Intelligent Shopfloor Solutions) software.

Who Should Attend:

Personnel responsible for line programming using IS.

Length:

4 days

Prerequisites:

Familiarity with KE or FX Series machines used in customer's line, strong computer skills, complete familiarity with the Windows operating system. Understanding of networking concepts is helpful. Attendees **MUST** be familiar with programming on FX or KE Series machines as this will not be covered in depth in this class. Machine Specific Programming and Operations Course is strongly recommended, but not required if the student is already familiar with machine programming.

Course Description:

This course is designed to provide the participant with additional practice and knowledge of IS functions and features, along with tips on how to more effectively use the IS to increase production capabilities.

Special Note for the last day:

The IS training material is usually completed within 3 to 3.5 days, and the remaining time can be used to cover converting CAD Data using various software packages, for those customer that have them.

Topics Covered: Course Introduction

1. IS Overview
 - 1.1. What IS can do, how it can simplify machine programming
 - 1.2. IS Modules
2. Client Base
 - 2.1. Users and Groups
 - 2.2. Shopfloor Setup
 - 2.2.1. Creating lines and machines
 - 2.2.2. Editing lines or machines
 - 2.3. Component Database
 - 2.3.1. Importing data
 - 2.3.2. Using package codes
3. Intelli PE

IS

Training Courses

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3.1. Program Editor

3.1.1. Overview of each programming screen highlighting IS additions (or differences) to programming when compared to the machine specific program

3.1.2. Program Explorer

3.1.2.1. Register

3.1.2.2. Check In

3.1.2.3. Check Out

3.1.2.4. Get

3.1.2.5. File locations and types

3.1.3. PWB Data

3.1.4. Placement Data

3.1.4.1. Assigning stations

3.1.5. Component Data

3.1.5.1. Different requirements for various machines

3.1.5.2. Vision Data

3.1.6. Pick Data

3.1.6.1. Manually and automatically assigning stations

3.1.7. Using the Database with Program Editor

3.1.8. Optimization

3.1.8.1. Assignments

3.1.8.2. Feed back

3.1.8.3. Balance

3.1.8.4. Area

3.1.8.5. Feeder Arrange

3.1.8.6. Place Order

3.1.8.7. Non-stop

3.1.8.8. Machine Options

3.1.9. Board viewer

3.1.9.1. Importing board image

3.1.9.2. Editing component rotations

3.2. Job Optimizer

3.2.1. Pre-planning multiple jobs

3.2.2. Optimization of multiple jobs

3.2.3. Updating "master files" after production

3.3. Mark Database

3.3.1. Importing fiducial marks

3.4. Feeder Set Database

3.5. Mount Simulation

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- 3.5.1. Simulating production times
- 3.6. Program Relator
 - 3.6.1. Combining individual machine files into a new IS file
 - 3.6.2. Batch function
- 4. Tips for better optimization
 - 4.1. Number of Feeders
 - 4.2. Feeder Layout
 - 4.3. Divided Placement view
 - 4.4. Nozzle Layout
 - 4.5. Status Display
- 5. Intelli PD
 - 5.1. Running production via IS
 - 5.1.1. Downloading files to the machines
 - 5.1.2. Terminating files at machines before production
 - 5.1.3. Ending production before completion
 - 5.2. Propagation
- 6. Intelli PM (optional)
- 7. Troubleshooting

This is the end of the IS Utilization training course. Any remaining time, if available, will be used to help answer questions for CAD data conversion using the type of CAD data conversion software that Juki sells and supports.

- 1. NPI+ (CircuitCAM Express for IS) TIME PERMITTING ONLY
 - 1.1. File conversion
 - 1.1.1. Gerber
 - 1.1.2. CAD
 - 1.1.3. ASCII
 - 1.2. Gerber Data versus Native CAD data versus simple Centriod Data
 - 1.3. Gerber Viewer
 - 1.4. Universal Window
 - 1.4.1. Importing in CAD data
 - 1.4.2. Importing in BOM data
 - 1.4.3. Board frames and panelization
 - 1.4.4. Confirming components
 - 1.4.5. Generating Programs
- 2. FlexlineCAD (Depending on class requirements)
 - 2.1. Pre-installed CAD Data Formats
 - 2.2. Using UDF to help eliminate the need for modification (clean-up) of CAD Data

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- 2.3. Creating UDFs
- 2.4. How to Import UDFs that JAS has created
- 2.5. How to merge CAD Data and BOM files
 - 2.5.1. Using Excel (or Notepad) to correctly format the BOM
- 2.6. Sectional versus Batch conversions
- 2.7. Conversion Wizard

Final Practice

1. Convert CAD file
2. Complete component data
3. Optimize ISS file
4. Make a 2nd ISS file
5. Make a reservation (RSV) file using 2 or more ISS files
6. Optimize RSV file
7. Download RSV file to machine
8. Upload file (cancel or suspend)

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