

JaNets Training Courses

JUKI

JUKISmart Solutions



Utilization Course

Note: This course is only available to customers who have purchased the JaNets (Juki advanced Networks system) software

Who Should Attend:

Personnel responsible for line programming using JaNets

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 JaNets functions and features, along with tips on how to more effectively use the JaNets to increase production capabilities.

Special Note for the last day:

The JaNets 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 customers that have them.

Topics Covered: Course Introduction

1. JaNets Overview
 - 1.1. What JaNets can do, how it can simplify machine programming
 - 1.2. JaNets 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. PE
 - 3.1. Program Editor

JaNets

Training Courses



JUKISmart Solutions



- 3.1.1. Overview of each programming screen highlighting JaNets additions (or differences) to programming when compared to the machine specific program
- 3.1.2. PWB Data
- 3.1.3. Placement Data
 - 3.1.3.1. Assigning stations
- 3.1.4. Component Data
 - 3.1.4.1. Different requirements for various machines
 - 3.1.4.2. Vision Data
- 3.1.5. Pick Data
 - 3.1.5.1. Manually and automatically assigning stations
- 3.1.6. Using the Database with Program Editor
- 3.1.7. Optimization
 - 3.1.7.1. Assignments
 - 3.1.7.2. Feed back
 - 3.1.7.3. Balance
 - 3.1.7.4. Area
 - 3.1.7.5. Feeder Arrange
 - 3.1.7.6. Place Order
 - 3.1.7.7. Non-stop
 - 3.1.7.8. Machine Options
- 3.1.8. Board viewer
 - 3.1.8.1. Importing board image
 - 3.1.8.2. 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
 - 3.5.1. Simulating production times
- 3.6. Program Relator
 - 3.6.1. Combining individual machine files into a new JaNets file
 - 3.6.2. Batch function
- 4. Tips for better optimization
 - 4.1. Number of Feeders
 - 4.2. Feeder Layout

JaNets

Training Courses



JUKISmart Solutions



- 4.3. Divided Placement view
- 4.4. Nozzle Layout
- 4.5. Status Display
- 5. 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. 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
 - 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

JaNets

Training Courses

JUKI

JUKISmart Solutions



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)

Juki Americas Headquarters

5151 McCrimmon Parkway, Suite 200
Morrisville, NC 27560
Phone: 919-460-0111
Fax: 919-469-0480

JUKI

www.jukiamericas.com