

# Panasonic Factory Solutions Modular Training Courses

Role Based NPM Training-Modules





# Panasonic Factory Solutions Modular Training Courses

As a worldwide player Panasonic Industry offers a wide range of solutions for all customer needs from components to complete factory solutions. Panasonic Factory Solutions Europe (PFSE) as a part of Panasonic Industry Europe provides advanced machines and software to optimize the SMT production. To achieve the best output and quality at the production line PFSE also offers individual training programs instructing the workforce to seamlessly operate Panasonics sophisticated and wide-range product portfolio.

## Empower Your Workforce

The new modular role based NPM training programs aim at operators, advanced operators, technicians and programmers of SMT factories. Thanks to its modular structure, specific trainings can be combined individually to address the different skill levels operators and maintenance staff may have. The training in our near Munich offers a number of training courses to improve the expertise of the personnel involved in production planning and the manufacturing process. The goal is to enable the workforce to achieve the highest production yield with the best quality at the lowest cost.



### Individual And Efficient

The unique role based training is tailor-made to educate operators, maintenance staff and production engineers at the specific task in mind, at the exact machines and software of your production line. Trainings take place either in our Panasonic Demo & Application Center or at your factory. The benefit of having your workforce educated in our Panasonic Campus is that all our SMT hard- and software can be examined in detail without having to stop the production at your factory floor. In small groups up to six participants our trainers, who are experts in their fields, teach individually composed courses according to a tailor-made schedule.



## Overview Modular Training Courses

Training-Modules	Target Group		Duration	Page
Safety Standard	All	 	1hr	06
Parts and Functions	Adv. Operator		8hrs	06
	Technician			
Machine Menu	Adv. Operator		8hrs	06
	Technician			
Machine Menu -Production	Operator		5hrs	06
Feeder	All		2hrs	07
DGS Menu and Functions	Technician		3hrs	07
	Programmer			
DGS Overview	Adv. Operator		2hrs	07
	Technician			
LNB Overview	Adv. Operator		1hr	07
	Technician			
	Programmer			
Trouble Shooting	All		6hrs	08
Maintenance Heads 3/6/12 10k and 20k	Adv. Operator		15hrs	08
	Technician			
Machine Calibration	Adv. Operator		8hrs	08
	Technician			
MFU-CP/CP/CPK	Adv. Operator		4hrs	08
	Technician			
Maintenance NPM	Enh. Operator		3hrs	09
	Technician			
IFMU Feeder Maintenance	Technician		6hrs	09
Offline Camera Unit	Programmer		6hrs	09
HMU	Adv. Operator		3hrs	09
	Technician			
PanaCIM Overview	Adv. Operator	 	1hr	10
	Technician			
Test	All	 	1hr	10

 Modules are Part of the NPM Advanced class

 Modules are Part of the Basic Class

### Safety Standard

A B

- > Safety Instructions
- > Laser, Flaps and Sensorik
- > Linear System
- > Magnetism, Voltage Sources

Duration	1 hr
Targetgroup	All

### Parts and Functions

B

- > Heads, Componentcamera / Headcamera
- > Vacuum pump and Airsensor (airflow), Warpige
- > Feeder cart and Trayshuttle
- > Manometer results, Support Pins

Duration	1 hr
Targetgroup	Adv. Operator, Technician

### Machine Menu

B

- > Complete Menu and Functions

Duration	8 hrs
Targetgroup	Adv. Operator, Technician

### Machine Menu - Production

A B

- > Production Menu
- > Error Menu
- > Feeder information Menu

Duration	5 hrs
Targetgroup	Operator

## Feeder

- > Types and characteristics incl. ALF
- > Handling
- > Cleaning

Duration	2 hrs
Targetgroup	All

## DGS Menu and Functions

**B**

- > Definition, Scheme & Communication, Factory Manager/ Line Configuration
- > Nozzle and Components Library and their Functions (Parameter Shape and Vision Functions)
- > Product/Project Mgr. incl. Feeding of Products/Projects in Context w. Nozzle, Feedersetup
- > PPD Manager and correlated Functions

Duration	3 hrs
Targetgroup	Technician, Programmer

## DGS Overview

- > Product Manager
- > Component Library
- > Product and Project Manager
- > PPD Manager and Download

Duration	2 hrs
Targetgroup	Adv. Operator, Technician

**NEW**

## LNB Overview

**B**

- > Line Information
- > Interpretation of Production Informations, Error Rates and Types
- > Component Data and Changes
- > MC Screenshots

Duration	1 hr
Targetgroup	Adv. Operator, Technician, Programmer

**A** Modules are Part of the NPM Advanced class

**B** Modules are Part of the Basic Class

### Trouble Shooting

**B**

- > Error Handling Hard- and Software on Basis of Day-to-Day Problems

Duration	6 hrs
Targetgroup	All

### Maintenance Heads 3/8/12 10k and 20k

**A**

- > Head Dismantelment
- > Simulated Change of Parts, Shaftchange
- > Characteristics of Heads and Dismantelment
- > Assembling and Justification

Duration	15 hrs
Targetgroup	Adv. Operator, Technician

### Machine Calibration

**A**

- > Complete Calibration with all Variety and Characteristics

Duration	8 hrs
Targetgroup	Adv. Operator, Technician

### MFU - CP/CPK

**A**

- > Machine Health Check and Panasonic Mounting Correctur

Duration	4 hrs
Targetgroup	Adv. Operator, Technician

## Maintenance NPM

A

- > Complete NPM Maintenance / Shaft, Nozzle, Filter cleaning
- > Maintenance Menu

Duration	3 hrs
Targetgroup	Enh. Operator, Technician

## IFMU Feeder Maintenance

- > Feeder Maintenance
- > Feeder Repair
- > Function IFMU
- > Feeder adjustment and Calibration of Products /Projects in Context w. Nozzle, Feedersetup
- > PPD Manager and correlated Functions

Duration	6 hrs
Targetgroup	Technician

NEW

## Offline Camera Unit

- > Link/connection to DGS
- > Creation Component Image and Transfer
- > Creation Component Data via Image
- > Use of Data and Pics in DGS

Duration	6 hrs
Targetgroup	Programmer

NEW

## HMU

- > Menu and Definition of Functions
- > Shaft Cleaning
- > Explanation and Demo Shaft Power Measure

Duration	3 hrs
Targetgroup	Adv. Operator, Technician

NEW

**A** Modules are Part of the NPM Advanced class

**B** Modules are Part of the Basic Class

## PanaCIM Overview



- > Route Status
- > Route Editor
- > Alert Lock
- > Scanner

Duration	1 hr
Targetgroup	Adv. Operator, Technician

## Test



- > Multiple Choice

Duration	1 hr
Targetgroup	All

## **Tailor-Made Schedules**

The customized training courses designed in accordance with your requirements are offered for software and hardware applications. The training courses are held exclusively on request and are individually tailored with the perfect education in mind. The content and duration of the training courses are discussed and agreed on beforehand to ensure the optimal learning achievements.

Training sessions on machines and software can be booked as product-specific individual trainings courses for the entire SMT portfolio to obtain optimal knowledge of the Panasonic Smart Factory solutions.

For further details on content, planning and booking of training courses please get in touch with Frank Stegemann, Manager of the Demo & Application Centre of Panasonic Factory Solution.

## **Support and further information, please contact:**

### **Demo & Application Centre**

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