

# Maximize the ROI of your SmartView system by building a higher level of product knowledge. Attend expert training.



The SmartView System Administrator Training curriculum has been carefully designed to develop your technical capabilities effectively.

The SmartView System Administrator Training is an introduction to automated surface inspection, defect detection and classification, display and reporting, system operation, and system administration.

Our focus is to provide you with the knowledge to use our SmartView software in the most proficient and productive manner possible. By offering standard and industry-specific training programs, we provide you with the highest level of skill you need to bring better products to market more quickly and efficiently.

Our training is delivered by experienced, qualified trainers who have a broad understanding of our products, systems, and applications. The training course is comprised of classroom-style instruction, accompanied by exercises to solidify the concepts learned. The course is intended for engineers who will be configuring and maintaining the SmartView system.

## Who Should Attend?

Process engineers, quality assurance managers, technicians, project managers.

## What prior training is required?

None. However, the course material is assimilated better when the student has already had a hands-on introduction to a working system, preferably at least one month after system installation.

## What will I get out of the training?

If you have recently purchased a SmartView system, the SmartView System Administrator Training will enable you and your staff to achieve the highest possible return on investment. If on the other hand, you have an established SmartView system, administrator training will enable you to get added benefit from your system or train new employees. Once completed, you will learn how to set up the SmartView system, inspect live production, report on



defects and process conditions, and visualize the entire product.

## What will I get out of the training?

After training, you will be able to collect defect libraries, set up a classifier, evaluate system performance, troubleshoot problems, and train your other staff.

## COURSE BENEFITS

**Accelerate your learning:** With both instructor-led and hands-on learning, your engineers will increase their skill set and ensure your SmartView system operates at peak performance.

**Improve engineering proficiency:** Trained and qualified engineers and operators will be able to take advantage of SmartView's full range of advanced capabilities and features.

**Improve operations productivity:** Maximize your productivity by training your operators to use your SmartView system to its fullest capacity.

**Minimize downtime:** Help reduce scheduled and unscheduled downtime by training to self-maintain your SmartView system — helping you to realize the ROI of your SmartView purchase even sooner.

Register for a training class:  
[www.ameteksurfacevision.com/training](http://www.ameteksurfacevision.com/training)

### Course Description

Through the intensive practical training, and very well designed exercises, you will learn very fast how to use the powerful features of your SmartView® system to achieve the highest performance of the software. The course syllabus includes the following topics:

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- > **Introduction**
  - Automatic web inspection with the SmartView inspection system, hardware components and their function network architecture, an overview of the software components and options.
- > **Operator Console**
  - Displays & Controls
  - Setting up and controlling inspection
  - Individual Defect Details
  - Sheet Quality Viewer
  - Customizing displays with queries
  - Video Console
- > **Configuration Manager**
  - Physical Input and Output Parameters
  - Inspection Setup Parameters
  - Crossweb Calibration
  - Field of View
  - Encoder Setup
- > **Classifier Manager (SmartLearn®)**
  - Creating a classifier
  - Adding new Defect and Filter Classes
  - Building and refining defect libraries
  - Defining rules
  - Testing the classifier
- > **Recipe Manager**
  - Defining a New Recipe
  - Edge Tracking
  - Signal Adjustment - Normalization, Gain and Offset
  - Thresholding Algorithms
  - Pixel Filter
  - Defect Parameters
  - Repeating Defect Setup
  - Lane and Tiles
  - Report Setup
- > **Report Manager**
  - Report Types
  - Previewing Reports
  - Using Query to Customize Reports
  - Exporting Inspection Data Video Console
- > **Production Quality Advisor (PQA)**
  - Defect Trends
  - Defect Position Profile
  - Time-based Reports
  - Database Administration Basics

### INCLUDED LAB EXERCISES:

- > Set up simple defect detection and run inspection. Set up typical operator displays and customize with defect queries.
- > Manually define general and specific defect classes. Test the classifier against production files
- > Use digital outputs to turn on light tower for specific conditions
- > Preview inspection reports, set up query to customize reports
- > Export data to an Excel spreadsheet
- > Set up repeating defect detection
- > Edge Tracking
- > Thresholding Algorithms
- > Pixel Filtering
- > Use grayscale bins to classify subtle and extreme bright and dark defects
- > Build and fine tune defect libraries
- > Backup system setups and data
- > Reboot system, focus cameras, check calibration, troubleshoot problems

### Course Availability:

Classes are scheduled throughout the year. In general, there is a class every quarter. System Administrator classes are held in the following locations:

- > Hayward, CA, United States
- > Karlsruhe, Germany
- > Tokyo, Japan
- > Shanghai, China

### REGISTRATION:

To register for a class and get an up-to-date training schedule, go to:

[www.ameteksurfacevision.com/training](http://www.ameteksurfacevision.com/training)