



## Online Fundamentals of Instrumentation and Quality Control

Format:  
Interactive Online Modules  
Available 24/7

### Overview

Make working with color fun and easy! This 5-hour interactive course can be taken at your own pace and uses a blend of videos and software simulations to teach the best quality control practices to streamline your color workflow. During the course, you will be able to sign up for a 1-hour live virtual session with an instructor to ask any questions that come up.

Before taking this course, you should have a solid understanding of color theory, especially the concepts of  $L^*a^*b^*$  and  $L^*C^*h^°$ . If you do not feel properly prepared, consider taking our Fundamentals of Color and Appearance course.

### Who Should Attend?

This course is designed for all industries and individuals including quality control and quality assurance professionals, lab technicians, parts suppliers, manufacturing specifiers, designers, and anyone who evaluates or approves color.

### Why Attend?

Our Fundamentals Seminar Series is the leading educational course in the country. We have adapted it into an interactive online course to help you gain foundational knowledge that can help you optimize your color measurement and design workflow.

# Fundamentals of Instrumentation and Quality Control (FIQC) - Online

## Agenda

### Module 1: Instrumentation Geometries

- Understanding the types of instrument geometries
- Reviewing characteristics and use cases for various types of spectrophotometers

### Module 2: Connecting & Configuring a Device with QC Software

- Connecting a device to Color iQC software
- Importance of calibration
- Configuring calibration modes

### Module 3: Calibration

- eXact calibration
- MetaVue VS3200 calibration
- Ci64 calibration
- Ci7800 reflectance calibration
- Ci7800 transmission calibration

### Module 4: Taking Measurements

- Taking reflectance measurements
- Taking transmission measurements
- Measuring samples against standards

### Module 5: Illuminants & Observers

- Understanding illuminants and observers
- Properly setting illuminants and observers on a device

### Module 6: Color Spaces

- L\*a\*b\* color evaluation
- L\*C\*h° color evaluation

### Module 7: Tolerancing

- How to define tolerances
- Different ways to view tolerances

### Module 8: Visual Evaluation vs. Measured Evaluation

- Visual vs. measured evaluation
- Color vs. appearance

### Module 9: Apertures & Sample Presentation

- Apertures vs. measurement area
- Sample presentation to device

### Module 10: Metamerism & Measurement Process

- Identifying color differences using QC software

### Module 11: Wrap Up

- Summary
- Knowledge check
- Certification of completion

### Additional Features:

- 1-hour live virtual session with an instructor to ask any follow up questions
- 24/7 access to entire course to work on at your own pace
- Software simulations to practice your knowledge and learning
- Certificate of completion upon receiving a passing score of 80%

## What Attendees are Saying...

"HD video and audio quality make the videos feel like I am learning as if I was in a classroom."

"The interactive simulations were a really cool way to engage with the software."

"The detailed explanations and software introductions that were not explained in FOCA made it possible to discover new things and enjoy participating."

## For More Information

Visit: [www.xrite.com/training](http://www.xrite.com/training)

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