



## Colour education courses and vision testing



### Learn more about colour from the world's leading colour assessment specialists

VeriVide courses are for people in any industry where accurate colour assessment and measurement can improve quality, competitiveness or supply chain efficiency. The courses are typically attended by anyone from designers and researchers to manufacturers, processors and retailers.

#### VERIVIDE OFFERS TWO TRAINING COURSES ALONGSIDE COLOUR VISION TESTING:

- ✦ Colour awareness
- ✦ Quality control
- ✦ Colour vision testing

The courses are developed to be stand-alone course and can be combined to suit any need, or content tailored to specific client requirements - just ask.

Each course lasts a day and can be held either at our premises - recommended for easy access to VeriVide in-house resources - or at yours. We offer a dedicated seminar room with lighting cabinets and other equipment to add hands-on experience. If there are special circumstances which mean courses need

to be held at your site, we need a large enough space to set up our equipment, which includes a lighting cabinet and projector if necessary, as well as sufficient space to allow attendees to move around. An additional cost would apply to courses held at your location.

#### 1. COLOUR AWARENESS COURSE

- ✦ The importance of colour
- ✦ What is colour?
  - Colour perception
  - Relationship between light, eye and object
  - Background effects
  - Colour vision anomalies, including colour blindness
  - Introduction to colour constancy and metamerism

- ✦ Visual assessment of colour
  - Colour Assessment Cabinets and light source options
  - Standards and best practice guidelines
  - Preparation and presentation of samples.
- ✦ Colour communication
  - Colour order systems
  - Munsell and Pantone terminology
- ✦ Electronic colour communication - an introduction
  - (Dealt with fully in Quality Control course.)
  - Digital colour communication.
- ✦ Discussions
- ✦ Practical examples -we have some test samples, but it is helpful if attendees bring some live examples.

## 2. QUALITY CONTROL COURSE THE IMPORTANCE OF COLOUR

### ➤ What is colour?

- Colour perception
- Relationship between light, eye and object
- Background effects
- Colour vision anomalies, including colour blindness
- Introduction to colour constancy and metamerism

### ➤ Visual assessment of colour

- Colour Assessment Cabinets and light source options
- Standards and best practice guidelines
- Preparation and presentation of samples.

### ➤ Sample preparation and presentation

- Conditioning and opacity
- Quality of sample
- Manufacture of sample
- Repeatability of presentation

### ➤ Colour communication

- Colour order systems
- Munsell and Pantone terminology.

### ➤ Colour measurement

- International standards for defining colour perception
- Spectrophotometers.

### ➤ Colour difference (quality control)

- Colour difference equations.

### ➤ Tolerances

- Theoretical tolerances
- Practical tolerances for development and production.

### ➤ Electronic colour communication

- Standard operating procedures

- Spectral data
- Digital colour communication.

### ➤ Discussions

### ➤ Practical Examples and Measurements

## 3. COLOUR VISION TESTING



Did you know that approximately 8% of males and 0.4% of females have defective colour vision?

Some occupations e.g. pilots and train drivers, require excellent colour vision for safety reasons and other occupations require good colour vision for matching coloured products to a standard.

Tests are performed in artificial daylight in a VeriVide Colour Assessment Cabinet. Results are analysed by VeriVide and certificates are issued for each individual showing his or her total score and rating.

Anyone with weaknesses in a particular colour area can optionally be retested for a more precise diagnosis.

The tests used include the Ishihara and Farnsworth-Munsell 100 Hue tests.

## ISHIHARA TEST



This tests for colour blindness, a condition characterized by reduced ability to distinguish different colours of the spectrum.

The test consists of 24 plates with randomised dots forming numbers that are more or less visible depending on the degree of the colour vision defect. The full test can give a very accurate defect diagnosis for red green colour blindness.

## FARNSWORTH-MUNSELL 100 HUE TEST



Used widely in industry for over 40 years, this test detects colour vision abnormalities and assesses colour acuity (the ability to identify changes in colour).

Four trays contain a total of 85 movable coloured tiles. The subject arranges the tiles in each tray in order of hue. Depending on the error rate, colour discrimination aptitude can be assessed with some accuracy.

VeriVide is committed to innovation in colour assessment and quality control. From constructing bespoke standardised viewing environments to developing new lighting products to meet industry standards, improving your quality and productivity is always our priority.

VeriVide is BS EN ISO 9001 : 2015 assessed and registered. All our colour assessment and measurement equipment is made in the UK. Design and specification subject to change without notice.

**VeriVide**  
See in Truth

For further technical information  
visit: [www.verivide.com](http://www.verivide.com)



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