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BCF
British Coatings
Federation



Why study with us?

The Coatings Training Institute (CTI), brought to you by the British Coatings Federation, is the world's leading distance learning solution for the coatings industry. With a wide range of topics covered with progressive levels of difficulty, CTI is ideal for anyone interested in the technology of coatings.

Key features

- Self-study, where and when you want
- Bite-sized learning at your own pace
- Comprehensive support from qualified tutors
- Online and written assessments
- Taster versions available to download before you buy

Benefits

- Improve technical knowledge or technical English
- Make a step change in your career
- Increase your knowledge of coatings technology and confidence
- Gain a globally recognised certificate, tailored for the coatings industry – CTI's 'International Certificate in Coatings Technology'

Employers

CTI offers flexible solutions to aid in the career development priorities of your organisation. Students can study one module or a series of modules leading to a certificate. Franchise opportunities are also available for organisations interested in a white labelled, company-wide training programme.

Apprenticeships

Employers can also take advantage of BCF's agreement with Tiro, a specialist trainer provider for science and technology apprenticeships, which will also give funding for the BCF's Coatings Training Institute courses. Tiro's level 3 Laboratory Technician and Science Manufacturing Technician apprenticeships will both utilise six modules from the Coatings Training Institute as the knowledge element of the apprenticeship.

Approved by Royal Society of Chemistry

CTI has received approved status for all levels. This approved status, awarded by the Royal Society of Chemistry, recognises the quality of the content and delivery of the training provided by CTI. Those who achieve a CTI certificate can use it as evidence for attaining key attributes of Chartered Chemist status. More details can be found at: www.rsc.org/cpd/training



How it works

Depending on your own needs and experience – it is a “mix and match” approach. There are no formal entry qualifications for students, and there is a natural progression within the module structure for development to more advanced subject areas.

Students can study any number of modules, but by signing up for the Certificate in Coatings Technology (six modules) this entitles you to a 10% discount.

The Certificate in Coatings Technology is awarded at levels 2, 3, 4 and 5. A mixture of modules may be chosen from any of the levels, however, for a particular level of certificate, the majority of modules completed must be at that level. Successful completion of six modules entitles a student to an International Certificate in Coatings Technology awarded by the Coatings Training Institute.

Students work through modules by downloading the course work material from the CTI study portal. Students also complete online assessments and written tests at the end of modules which are marked by a CTI tutor, who is appointed when studies commence. Total study time per module is approximately 10 hours per module. All instructions and learning plans are obtained at the beginning of the module. Each student is given access to their study portal, where they can track their progress.

Modules

The Coatings Training Institute offers 57 modules of study across four levels of study, ranging from foundation, requiring no prior experience in coatings, through to advanced technical knowledge.

Level 2 Foundation

- 200** Coatings for Life – an Introduction
- 201** General Overview of Coatings
- 202** Media Solvents
- 203** Pigments and their Properties
- 204** Paint and Ink Manufacture Rheology
- 205** Evaluation
- 206** Surface Preparation
- 207** Powder Coatings – Overview
- 208** Powder Coatings Application and Cure
- 209** Paint and Ink Application

Level 4 Intermediate

- 403** Solvents and Additives
- 404** Media – Introduction to Manufacture of Media
- 405** Non-Convertible Media
- 406** Oils, Driers and Oleoresins
- 407** Convertibles Media – Alkyds and Polyester
- 408** Acrylics and Aminos
- 409** Epoxies and Urethane Resins
- 417** Manufacture – Dispersion
- 418** Manufacture – Flow

Level 3 Intermediate

- 301** Types and Manufacture of Pigments
- 302** Properties of Pigments
- 310** Media – Thermoplastic Powders
- 311** Media Thermosetting Powder
- 312** Testing – Solvents and Resins
- 313** The Testing of Pigments
- 314** Manufacture – Paint
- 315** Manufacture – Ink
- 316** Manufacture – Powder Coatings
- 319** Evaluation of Paints – Physical Properties
- 320** Evaluation of Paints– Chemical and Environmental Properties
- 322** Evaluation of Coatings Powders
- 323** Evaluation of Colour
- 324** Paint Application – Spraying
- 325** Painting Application – Non Spraying
- 326** Ink Applications Technology
- 327** Application Equipment for the Application of Powder Coatings
- 328** Theory of Application of Powder Coatings
- 329** Application – Metallic Substrates
- 330** Applications – Non-Metallic Substrates
- 332** The Curing of Coatings
- 333** Coatings – Safety, Health and Environmental Aspects

Level 5 Advanced

- 501** Pigments Colour and Dispersion
- 502** Evaluation and Specification
- 503** Formulation – Determining Factors
- 504** System Components – Decorative Applications
- 505** Formulation Requirements of Industrial Systems – Wood and High Performance Coatings
- 506** Industrial Coatings for Automotive and Packaging Applications
- 507** Liquid Coatings, Modifiers and Drying
- 508** Application and Special Properties
- 509** Appearance and Properties
- 510** Urethane and Amino Resins
- 511** Epoxy, Acrylic and Water Reducible Resins
- 512** Water Borne Coatings
- 513** Thermosetting Coating Powders
- 514** Coating Powders – Manufacture
- 515** Thin Film Intumescent Coatings for Fire Protection of Steel
- 516** General Overview of Inkjet
- 599** Advanced Level Formulation Project

What can I study?

International Certificate of Coatings Technology

Students can study any number of modules but signing up for the Certificate in Coatings Technology (6 modules) entitles you to a 10% discount.

The Certificate in Coatings Technology is awarded at all levels. A mixture of modules may be chosen from any of the levels. However, for a particular level of Certificate, the majority of modules completed must be at that level.

Successful completion of 6 modules entitles a student to a full International Certificate in Coatings Technology (ICCT) awarded by The Coatings Training Institute.

Members of the British Coatings Federation (BCF) receive savings of over 25% on all modules, both individually and as well as the multi-buy discount for purchasing six modules or more.

Industry-wide recognition

The BCF Student of the Year award, for our Coatings Training Institute (CTI) students, is decided by our industry-respected tutors. It represents the students that have achieved the best grades in our CTI modules and gives our top-attaining students industry-wide recognition for their achievements. The Student of the Year Award is presented each year at the BCF Awards ceremony in front of an audience of coatings industry leaders.



Linda Ferrante
Radiation Cure R&D Team Leader
Fujichem Sonneborn
Winner of BCF's Student of the Year Award 2021

"The CTI Modules have significantly helped me to improve my overall theoretical and practical understanding of Coatings Technology. I am successfully using what I have learned at work."

A word from some of our students



Sam Gumbley
R&D Technician
Belzona Polymerics
Winner of BCF's Student of the Year Award 2022

"The studies expanded my knowledge and awareness of what goes into creating a coating and what can affect the application or how the coating is applied."



Contact us

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**The Coatings Training Institute is brought to
you by the British Coatings Federation, the UK
trade association which has been representing
manufacturers of paints, printing inks and
wallcoverings for over 100 years.**

