



Society of Dyers and Colourists  
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Charity Registration No 212331



# Textile Coloration Certificate Prospectus 2017



A Chartered Society  
since 1963

## The need of an Industry

In response to the dyeing industry needs for an education scheme for future dyers the SDC, with assistance from the Worshipful Company of Dyers, have taken the successful pilot Chemistry in Relation to Dyeing course and developed the Textile Coloration Certificate course.

The Textile Coloration Certificate is overseen by the Society's Education, Qualification and Accreditation Board (EQAB) who also oversee the Society's Associateship examinations to provide academic rigour. Cat Blackwell has been employed to develop the structure, content and delivery of the course.

## Course Aims

To provide learners who are not familiar with the practice of science or the mechanisms of chemistry, a course of study that reveals the fundamental processes that occur during the coloration of textiles.

To provide a course of study that allows the learner, their employers and the SDC to evaluate the ability of the learner, so they can complete a technical education in textile coloration at different levels.

To provide learners from diverse educational and experiential levels with modular education that helps develop the knowledge and understanding that would allow them to develop deeper dyeing skills.

To help employers offer their employees an accessible opportunity for development, with a path to more highly and relevantly skilled employees in the field of textile coloration.

To assist learners in their fundamental understanding of textile coloration, so that if they wish to undertake further professional development this course can help them attempt more advanced study in the future.

The course of individual modules will be either 2 or 3 years dependent upon the entry qualifications of the candidate. The content and usage of new technologies in this course is an exciting development for SDC's educational activities. The SDC intends this course to be used by dyeing and coloration professionals as a precursor to other SDC courses and also as a stand-alone modular educational course. Throughout the course there will be individual company support of learners through mentoring.

The entry requirements are provided below.

## Foundation Textile Coloration Certificate (FTCC)

1 year consisting of 2 modules.

Entry Requirements - Anyone with a good level of GCSE education including GCSE Combined Science would have to successfully complete FTCC before commencing Textile Coloration Certificate (TCC). FTCC will be delivered by a blend of on line training and residential in 2 modules.

M1 – Chemistry Related to Textiles

M2 – Organic Chemistry Related to Textiles

Each module will consist of 10 hours tuition and 40 hours guided learning making a total learning time of 100 hours. 3 days of residential are planned to deliver face to face lessons, practical sessions and examinations.

All candidates will be examined at the end of the course under invigilated exam conditions which will contribute 70% of the final mark. In addition to the examination they will also be set an essay which will contribute 30% of the final mark. To guarantee entry onto TCC candidates must obtain a pass mark of at least 50%.

Candidates will also receive notification of their results in each individual module. There will be an opportunity for re sits of these examinations

## Textile Coloration Certificate (TCC)

**2 years consisting of 6 Modules (3 Modules per year) split into two sets, ONE set being taught per year (bi-annually). For example, Set A being taught in 2017, Set B in 2018.**

Entry Requirements – Candidates must have a minimum of GCSE Chemistry, Physics and Maths. Candidates holding a GCSE pass in these three subjects will be exempt from FTCC. However if a number of years have passed since the award, FTCC should be considered as it will provide a good clear background before commencing TCC. Please note GCSE Combined Science is not sufficient for direct entry to TCC.

### TCC Set A

M3 – Coloration Processes I

M4 – Textile Chemistry

M5 – Printing

### TCC Set B

M6 – Coloration Processes II

M7 – Colour Physics

M8 – Dyeing Theory

## Assessment Criteria

The content and usage of new technologies in this course is an exciting development for SDC's educational activities. The SDC intends this course to be used by dyeing and coloration professionals as a precursor to other SDC courses and also as a stand-alone modular educational course. Throughout the course there will be individual company support of learners through mentoring.

The syllabus has been developed with a view to having some form of future accreditation on successful completion of the course.

This course is delivered through a series of modules via Citrix as 2 hour lessons. The Citrix sessions are delivered online and comprise of 'real time' PowerPoint lessons and candidates are able to ask the presenter questions during the session. All the sessions are recorded and stored on the TCC section of the SDC website, these can be accessed by candidates anytime. These sessions are supported by lesson notes and background reading to facilitate learning. Employers and employees can obtain additional support via email and telephone. The assessment of the course will be via examinations at the end of each module.

During the course, learners will have the opportunity to participate during the online lessons and also at the residential sessions, where both lessons and examinations will be held. **Please note, examination dates are fixed and candidates will be expected to attend on the respective dates since no alternative dates will be offered.**

## Mentoring

It is a requirement for companies sending candidates on the Textile Coloration Certificate course to provide details of an employee or employees who can act as a mentor for the candidate. Mentors must be able to provide technical support to the candidate over the subjects being studied and provide input/advice on the candidate's course assignments.

## Tutorial Participation

During the tutorial learners have the opportunity to participate in a number of different ways in Citrix. They can flag that they want to ask a question and they can be polled for their opinion. These are all traditional components of tutorials and in this course they do not count towards assessment.

Assessment is counted on the basis of contribution to the class discussion. Since Citrix is a passive medium, those learners who participate in the open discussion that will end most of the online lessons can only invigorate the learning experience. Discussions can take place either through the text chat function or through the learner's headset microphone.

These discussions require each learner to add their understanding of what they have learnt so far and also what experiences they have had that illustrate what has been presented.

## Completion of Tasks

During the modules learners may be set a number of tasks to complete. Initially these tasks might be quite simple like create a definition but will build in complexity e.g. the learner will be asked to research an aspect of a tutorial and write a detailed explanation. Learners may also be asked to prepare a short presentation that will be delivered during one of the residential sessions. These tasks will give learners an opportunity to practice and improve upon their research, planning, time management and presentation skills.

Later tasks may include, researching, planning, carrying out or reporting on the performance of a dyeing or dyeing related task.

Although there is no accreditation for the tasks, learners are encouraged to complete them in order to obtain the best learning experience from the modules.

The practice of the art and science of dyeing is a continual examination of a person's skills. In many cases dyers are called upon to explain verbally and report in writing on their reasons for doing things and this requires a solid grasp of the detail of dyeing.

No dyer can escape this form of evaluation and it would be wrong not to ascertain the ability of someone learning about dyeing and their ability to demonstrate their understanding.

The examinations will be conducted at Perkin House under invigilated examination conditions. The SDC wishes to seek accreditation for the Textile Coloration Certificate from external educational establishments, to conform to such accreditation, examinations need to be held under controlled conditions.

Each Module will consist of 10 hours tuition and 40 hours guided learning making a total learning time of 300 hours. 8 days of residentials are planned to deliver face to face lessons, practical sessions and examinations. All candidates will be examined at the end of the course under invigilated exam conditions.

Modules 4, 5, 7 and 8 will be assessed by examination only contributing 100% of their final mark. Modules 3 and 6 will be assessed by examination and essay. The examination will contribute 70% of the final mark and the essay will contribute 30% of the final mark for the Modules.

The Textile Coloration Certificate will only be issued when a candidate has obtained a pass mark of at least 50% in Modules 3-8. Candidates will also receive notification of their results in each individual module.

There will be an opportunity for re sits of these examinations.

## Examination Re sit Information

Modules:

M3 Coloration Processes I (Core module)

M6 Coloration Processes II (Core module)

A re-sit for each of these two core modules are free and need to be passed in order to progress onto the second year of the Textile Coloration Certificate.

M4 Textile Chemistry

M5 Printing

M7 Colour Physics

M8 Dyeing Theory

Candidates will be offered the chance to re-sit Modules 4, 5, 7 & 8. Candidates who fail the first attempt at these exams will normally be allowed to re-sit them twice. The second attempt will normally be in November when being taken by a new cohort for the first time. All candidates will have access to the recordings of the online lessons for these modules to aid their revision.

### February re-sit

They will be offered the chance to re-sit two of the modules (either 4 & 5 or 7 & 8) in the February of the following year from the first time of taking the examinations.

Re-sits taken in February are charged at £25 per paper, this will include an online revision lesson in the January prior to the February re sit.

### November re-sit

This is the month when the examinations (either 4 & 5 or 7 & 8) were originally taken in the previous year. Candidates who do not want to pay for a February re-sit may re-sit failed papers (either 4 & 5 or 7 & 8) with the cohort taking these examinations for the first time.

Candidates will not be charged to re sit these papers, they will not receive an online revision session unless one is offered to the cohort taking the examinations for the first time.

### Examples:

No 1. If a TCC year 1 student fails Module 5 in 2017 but passes Module 3 (Core module) they will be allowed to progress onto the next year of the course and can re-sit Module 5 in either February of 2018 (£25 payment required) or when Module 5 is examined again in November 2019 (free).

No 2. If a TCC year 2 student fails Module 7 in 2018 but passes Module 6 (core module) they will be allowed to re-sit Module 7 in February 2018 (£25 payment required) or when Module 7 is examined again in November 2020 (free). This distinction between the year 1 and year 2 is being made since a year 2 student may be able to receive their certificate during the SDC Day of Celebration in May on passing all six examinations.

Candidates will only be allowed to re-sit each module a maximum of two occasions.

For Further Information please contact

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Cat Blackwell [catb@sdc.org.uk](mailto:catb@sdc.org.uk) 01274 761773

## Price

**Foundation Textile Coloration Certificate (FTCC)** - £1500 (Consisting of Modules 1-2 invoiced individually at £750)

**Textile Coloration Certificate (TCC) Year 1 (Set A)** - £2502 (Consisting of Modules 3-5 invoiced individually at £834)

**Textile Coloration Certificate (TCC) Year 2 (Set B)** - £2502 (Consisting of Modules 6-8 invoiced individually at £834)

### This includes:

1. Individual Non-Voting membership of the SDC
2. Access to online suggested reading material
3. Detailed notes for modules
4. Online access to the tutor
5. Examination fee
6. Cost of residentials (travel and accommodation is not included)

**Please fill out a separate application form for each candidate.**

Payments should be made in sterling by bank transfer to the SDC account in Bradford, UK.

Our bankers are:                      National Westminster Bank plc  
    7 Hustlergate  
    Bradford  
    West Yorkshire  
    BD1 1PP

Account No:                              41122933  
Bank Sort Code                          56-00-36  
IBAN                                        GB54NWBK56003641122933  
BIC                                         NWBKGB

## Foundation Textile Coloration Certificate (FTCC) 2017

Starting March 2017, ending September 2017

First residential week commencing Monday 13<sup>th</sup> March 2017

(Online teaching: *Start Monday 27<sup>th</sup> March 2017*)

Modules 1-2 taught during the year

### Modules:

M1 - Chemistry Related to Textiles

M2 - Organic Chemistry Related to Textiles

### Assessment:

M1 & M2 examination (70%), essay (30%)

### Progression:

From Foundation Textile Coloration Certificate (FTCC) to Textile Coloration Certificate (TCC):

Students will be allowed to progress onto TCC modules provided they have passed Module 2 of FTCC.

### Examination re-sits:

Re-sit exams are available and may be taken when offered.

A re-sit for Module 1 may be undertaken after starting Modules 6-8, but Module 2 must have been passed prior to starting since the chemistry covered is fundamental to Stage 2 Modules.



## Foundation Textile Coloration Certificate (FTCC) Schedule 2017

### Lessons & Residentials take place on Mondays

13 March	Residential (1 day): Lesson M1 L1
27 March	Lesson M2 L1
24 April	Lesson M1 L2
8 May	Lesson M2 L2
22 May	Lesson M1 L3
5 June	Residential (1day) Lesson M2 L3 Essay titles given
19 June	Lesson M1 L4
3 July	Lesson M2 L4
17 July	Lesson M1 L5
31 July	Lesson M2 L5
11 Sept	Residential (1day): Exams M1 & M2, Essay submission.

#### Assessment:

Modules 1 & 2 = 1 X 1hour exam. 1 essay from choice of titles.

#### Exams:

Modules 1 & 2, each exam is 1 hour in length, students are examined after 100% of the content is delivered.

Exams will consist of 50% Multiple Choice Questions (MCQ) and 50% short answer questions.

## Textile Coloration Certificate (TCC) 2017 (Set A)

TCC Modules starting February 2017 ending November 2017.

First residential week commencing 1<sup>st</sup> February 2017.

(Online teaching: *Start 15<sup>th</sup> February 2017*)

3 Modules taught per year - Modules 3-5 taught in TCC (Set A)

### Modules:

TCC (Set A):

M3 - Coloration Processes I

M4- Textile Chemistry

M5 – Printing

### Assessment:

M3 examination (70%), essay (30%)

M4 & M5 examination (100%)

### Progression:

TCC Year 1 (Set A) to TCC Year 2 (Set B): Students will be allowed to progress onto Year 2 modules provided they have passed the core Module for that Set i.e, Module 3 – ‘Coloration Processes I’ for Set A & ‘Coloration Processes II’ for Set B.

### Examination re-sits:

Re-sit exams are available and may be taken when offered.

Re-sit for TCC (Set B) Modules, Modules 7 and 8 may be undertaken after starting Modules 3-5 and vice versa for TCC (Set A), but Module 3 or Module 6 must have been passed prior to starting Modules of the alternative Set.

### Module Structure:

50 hours total time spent per module:

10 hours lessons (delivered online)

40 hours self study

### Self study:

Directed reading of selected materials.

Individual research towards presentation of a written essay.

Preparation for residential sessions.

Preparation for examinations.

Background reading

### Lessons every 2 weeks:

Lessons will have the following format:

- Question & answer session (Discuss Q&A set from previous lesson)
- Lesson overview with outline of Topics
- Lesson content including a short break
- Summary with Learning Outcomes
- Practice Questions to be completed by the learner before the next lesson

### Residentials:

Part teaching of all modules

Laboratory practical(s)

Examination of Modules taught both online and at residential.

### Awards:

Foundation Textile Coloration Certificate (FTCC) = pass all 'assessments' for modules 1-2.

Textile Coloration Certificate (TCC) = pass all 'assessments' for modules 3-8.

Each stage can be awarded at 3 levels according to average marks:

50 - 59% = Pass

60 - 69% = Merit

70 - 100% = Distinction

Candidates will also receive notification of their results in each individual module.

## Textile Coloration Certificate (TCC) Set A Lesson and Exam Schedule 2017

### Lessons & Residentials take place on Wednesdays

1 Feb	Residential (1 day): Lesson M3 L1
15 Feb	Lesson M3 L2
1 March	Lesson M3 L3
15 March	Lesson M3 L4
29 March	Lesson M3 L5
26 April	Residential (1 day): Exam M3, Lesson M4 L1 Essay Set M3
10 May	Lesson M5 L1
24 May	Lesson M4 L2
7 June	Lesson M5 L2
21 June	Lesson M4 L3
5 July	Lesson M5 L3
19 July	Residential (1 day): Lesson M4 L4
30 Aug	Lesson M5 L4
13 Sept	Lesson M4 L5
27 Sept	Lesson M5 L5
8 Nov	Residential (1 day): Exams M4 M5, M3 Essay submission, M3 re-sit

### Assessment:

M6 = 1 X 2 hour exam + essay from choice of titles.

M7 & M8 = 1 X 1 hour (1.5 hour) exam.

### Exams:

M3 exam is 2 hours, students are examined after 100% of the content has been delivered.

Exam re-sit opportunity at November 2017 residential.

M4 & M5 have 1.5 hour examinations taken after 100% of the content has been delivered.

Exams will consist of 30% Multiple Choice Questions (MCQ) and 70% short answer questions.

## Textile Coloration Certificate Stage 2 (Set B) 2018

Year 2 Modules will commence in Feb 2018 ending November 2018.

First residential week commencing Feb 2018

3 Modules taught per year – Set A Modules being taught in 2017 & 2019.

### Modules:

Year 3, Set A:

M6 – Coloration Processes II

M7 – Colour Physics

M5 – Dyeing Theory

### Assessment:

M6 examination (70%), essay (30%)

M7 & M8 examination (100%)

### Examination re-sits:

Re-sit exams are available and may be taken when offered.

Re-sit for M4 and M5 may be undertaken after starting M6-8, but M3 must have been passed prior to starting M6-8.

### Module Structure:

50 hours total time spent per module:

10 hours lessons (delivered online)

40 hours self study

### Self study:

Directed reading of selected materials.

Individual research towards presentation of a written essay.

Preparation for residential sessions.

Preparation for examinations.

Background reading

### Lessons every 2 weeks:

60 minutes per lesson

2 Modules taught per session (2 x 60 minutes = 2 hours taught)

### Residentials:

Part teaching of all modules

Laboratory practical(s)

Examination of Modules taught both online and at residential.

### Awards:

Stage 2 = pass all 'assessments' for modules 3-8.

Each stage can be awarded at 3 levels according to average marks:

50 - 59% = Pass

60 - 69% = Merit

70 - 100% = Distinction

## SDC Academic Team

### Andrew Filarowski CCol ASDC.



Andrew is Technical Director of the Society of Dyers and Colourists and has over 20 years international experience of textile and business management in the textile industry. A graduate of Leeds University in Textile Chemistry, he began his career with Sandoz in auxiliaries and finishes carrying out comparative studies on products in the laboratory and in bulk at customers. In his next position he had responsibility for the installation of a QA laboratory that included physical and chemical testing and a colour management package as well as the implementation of ISO 9001. A career move saw him take on responsibility for product development as a chemical supplier before moving into sales with Yorkshire Chemicals where his technical knowledge of the dyeing and finishing of polyester and its blends proved invaluable in delivering a technically focused sale.

In his current position he is responsible for the development of the Society's international training courses. He is the secretary to BSI Colour Fastness and Colour Measurement committee TCI/81 and its mirror committee in ISO TC38. He is also instrumental in ensuring the Society maintains its position in the field of education in textile coloration and has responsibility for the internationally acclaimed publication the Colour Index. He ensures that the Society remains a technical professional body through its publications, seminars and conferences and continues to be relevant for professionals involved in the coloration industry.

### Miss Cat Blackwell

Cat is the Education Manager of the Society of Dyers and Colourists and will be delivering the Textile Coloration Certificate course. She graduated from the University of York in 2009 with a BSc in Chemistry and went on to complete a MSc by Research in Colour Chemistry and a PGCE in Secondary Chemistry at the University of Leeds as part of a Rothschild Scholarship. She gained research experience by taking on the role as a Research Assistant in the Colour Department at the University of Leeds in 2011, involving the synthesis of novel photochromic dyes. For the past three and a half years she has been working towards a PhD in Polymer Chemistry at Durham University and will shortly undergo viva examination, involving the synthesis and degradation studies of biodegradable polyurethanes.

### Dr R H Wardman



Roger H Wardman graduated with a first-class honours degree in Colour Chemistry from the University of Bradford in 1974. In 1981 he obtained his PhD degree from the same University. He joined the Scottish College of Textiles as a lecturer in colour science in 1974. The College merged with Heriot-Watt University in 1998 and he was Head of the School of Textiles & Design of the University between 2003 - 2008. In 2005 he was appointed Professorial Fellow by the University. He is now retired.

He was a Trustee of the Society of Dyers & Colourists between 2009-12, with special responsibility for education and since 2009 has been Chairman of the Society's Education, Qualifications and Accreditation Board. In 2006 he was awarded the Gold Medal of the Society for outstanding contributions to colour education and colour science.

In 2007 he was awarded the Research Medal of the Worshipful Company of Dyers of the City of London. Between 2003 – 06 he served as President of AUTEX, the Association of Universities for Textiles, a consortium of European university textile departments that

collaborate on research and teaching in textiles. In 2012 he was awarded a lifetime achievement award in textiles by AUTEX.

Prof. Wardman's research interests have been in the fields of colour measurement and specification, dyeing and ink-jet printing of textiles, and in textile chemistry. He has published over 20 research papers and regularly given papers at conferences. His latest book "The Chemistry of Textile Fibres" which was published by the Royal Society of Chemistry in 2010.

The SDC reserves the right to alter the dates but will endeavour to keep to these to ensure continuity of learning and planning for the employers.

Details of the learning objectives, content and learning outcomes will be available on the SDC website for employers to access and also to aid the candidates in their learning.

Employers will be able to assess their employees through their change in attitude and work ethic and will also have access to the SDC team for further feedback on modules.

As this course is written with the industry your feedback is vital for the SDC to be delivering a course that provides you as employers and the candidates with the necessary information.

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