

About this course

The Surface Coatings Association Australia Inc (SCAA) has been the provider of technical education to the coatings industry for many years, mainly via classroom-based courses in Melbourne and Sydney. SCAA has now developed its *Certificate of Surface Coatings Technology (S001001)* course into a self-paced, distance-learning format.

This course has been developed with assistance from the Australian Paint Manufacturers' Federation, and contributory funding by the NSW Department of Education and Training.

Who should apply?

Technical staff, including laboratory chemists and sales staff, working in, or wishing to enter the paint, ink or other coatings related industries. Participants are generally employed by: paint or ink manufacturers, raw material suppliers or manufacturers that use coatings.

Course prerequisites and exemptions

Due to the level of technical content, the general requirement is a Degree or Diploma in Chemistry or an equivalent qualification.

Those without a tertiary qualification may apply, but must have successfully completed a Secondary Year 12 certificate including Chemistry, with a recommended minimum 5 years of relevant experience in the coatings or related industry.

Students will require access to a computer with the following minimum specifications: Pentium II computer, 600MHz processor, monitor capable of displaying a resolution of 800x600 pixels at 65K colour, audio card and CD-ROM drive. Operating systems: Windows NT, 2000 or XP.

A high level of English language ability is required. An example lesson can be viewed at www.rmittraining.com/scaa

Given the specialized nature of the course, exemptions will not be considered.

Unit One: Polymers

- Introduction to Polymer Science
- Vegetable Oils
- Varnish Resins, Oleoresinous Media
- Alkyd Technology
- Modified Alkyds
- Water Reducible Polymers
- Amino & Phenolic Resins
- Cellulosic Polymers
- Epoxies, Curing Agents and Silicones
- Polyesters, Vinyls, Rubber, Tar and Olefins
- Acrylic Solution Polymers
- Latex Polymers – Part 1
- Latex Polymers – Part 2
- Polyurethane Resins

Unit Two: Solvents & Additives

- Solvents, Diluents and Thinners Part 1
- Solvents, Diluents and Thinners Part 2
- Introduction to Rheology
- Rheology Modifiers
- Surfactants
- Coating Additives

Unit Three: Pigments & Colour

- Colour Theory and Measurement
- Introduction to Pigments
- Inorganic Pigments
- Titanium Dioxide & Opaque Polymers
- Organic Pigments
- Anti Corrosive & Extender Pigments
- Dispersion Theory & Methods

Unit Four: Coatings Types

- Formulation Parameters
- Corrosion and Conversion Coatings
- Heavy Duty Protective Coatings
- Marine Paints
- Decorative Coatings – Introduction
- Decorative Coatings – Water based
- Decorative Coatings – Solvent based
- Decorative Coatings – Substrates, and Tinting Systems
- Wood Stains & Finishes
- Automotive Primers / Undercoats
- Automotive Top Coats
- Automotive Refinish Systems
- Industrial Coatings
- Coil Coatings
- Metal Container Coatings
- Powder Coatings

Unit Five: Printing Inks

- Printing Ink Technology– Part 1
- Printing Ink Technology– Part 2

Unit Six: Technical Management

- Chemical Toxicology
- Occupational Health & Safety
- Analysis of Coatings
- Statistical Process & Quality Control

How will you benefit?

SCAA's technical education programs are well accepted and valued by the coatings industry. Graduates can be assured of a solid grounding in the technology involved in the development and use of modern surface coatings

Having successfully completed the course, you will receive the **SCAA Certificate of Surface Coatings Technology by e-Learning**.

Course structure

The course syllabus comprises 49 lessons, structured into 6 units. Students should complete all units and lessons in the given sequence.

Early units of the program provide coverage of the materials used in coating manufacture: polymers, pigments, solvents and additives. The later units build upon this foundation, covering the formulation and applications of surface coating products.

Resources

Lesson content is provided via a set of two CD ROMs. In addition, it is strongly recommended that participants also purchase the reference texts, *Surface Coatings Vol 1 & 2* published by SCAA. These can be purchased via the Publications section of www.scaa.asn.au

Assessment

Formal assessment will be by 3 written exams, which follow completion of units 1, 3 and 6 respectively. These exams will be conducted in-person (ie not online), at a time and nearby location arranged in advance with the student. Upon exam completion, the Course Administrator will arrange marking by our Expert Panel.

Course Fee, enrolment and payment

- The course fee is \$2500 (or \$1750 for SCAA members - provide your member number when booking). The course is GST exempt, prices are in Australian dollars.
- Enrol into this course at any time by phone, fax, post, or via the website. Please ensure you have met the required course prerequisites.
- Payment is required at the time of enrolment. Visa, MasterCard, cheque or money order payments are accepted. Invoices may be issued where Company Purchase Orders accompany an enrolment form.
- A tax invoice and CD ROMs will be issued once enrolment is confirmed.

SCAA membership

Application for SCAA membership can be made at www.scaa.asn.au.

Terms and conditions

1. Registrations cannot be completed, nor can the resources be supplied until the full course fee is received.
2. CD ROMs must be activated by participant within 30 days of booking date.
3. As prerequisites apply, substitute participants are not permitted.
4. Cancellation Policy: RMIT Training must be notified of request to cancel within 14 days of Booking Date. All cancellations will incur a \$100 cancellation fee. A refund will be issued once CD ROMs have been returned to RMIT Training. Cancellations will not be accepted once CD ROMs have been activated.

For Further Information and to Enrol

www.rmittraining.com/scaa

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 RMIT Training

Surface Coatings Association Australia



Certificate of Surface Coatings Technology by e-Learning



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