

Conformal Coating Training Programme

Introduction

SCH Services Ltd provides comprehensive conformal coating training designed to build capability and confidence within your organisation. Our training is tailored specifically to your company, beginning with a review of your current processes, equipment, and challenges. By aligning training directly with your operations, we ensure knowledge is practical, relevant, and immediately applicable.

All programmes are delivered on-site at your facility, using your own equipment. This hands-on, process-focused approach enables operators and engineers to learn in a familiar environment and apply skills directly to live production. Training is modular, customisable, and fully aligned with IPC-A-610, IPC-CC-830, ISO, and related industry standards.

Training Areas of Expertise

Basics

The foundations of conformal coating processes are explored in detail, giving your team the essential knowledge needed to understand and manage coating systems effectively. Key areas include:

- Basic concepts of liquid conformal coating
- Selection of conformal coating materials and chemistries
- Application techniques and process comparisons
- Introduction to Parylene concepts (with advanced Parylene training covered in a separate dedicated programme)

Process Control

Control of the conformal coating process is critical for repeatability, reliability, and compliance. This module covers:

- Process optimisation and measurement methods
- Fluid behaviour and material flow characteristics
- Troubleshooting process issues
- Cleanliness and reliability testing
- Masking principles and application rules
- Health and safety in conformal coating environments
- Conformal coating removal and rework techniques

Inspection & Standards

Understanding how to inspect conformal coating to recognised international standards ensures quality assurance and compliance. Topics include:

- IPC inspection standards and their interpretation
- Development and application of pass/fail criteria
- Thickness measurement techniques and inspection practices

New Product Introduction (NPI)

Integrating conformal coating into new designs and production lines requires planning and expertise. The NPI module provides guidance on:

- Selection of materials suited to product requirements
- Selection of application processes
- Implementation of coating processes into manufacturing workflows

Design Rules

Design-for-conformal-coating guidelines are critical for manufacturability and consistency. This section covers:

- Key design rules for coating coverage
- Component layout considerations
- Practical approaches to reduce masking and defects

Rework & Repair

When coating must be modified or removed, safe and effective methods are essential. This module includes:

- Controlled removal of conformal coatings
- Repair and restoration techniques without PCB or component damage
- Best practice for minimising risks in rework

Training Approach

Every training programme is fully tailored to the company's needs. SCH begins with a review of your current coating process, identifying strengths, weaknesses, and opportunities for improvement. Training modules are then adapted and delivered in the context of your facility, ensuring maximum relevance and benefit.

Courses are highly interactive, with a focus on practical application and operator engagement. By combining theory with hands-on practice, participants gain confidence to apply their knowledge immediately in production.

Summary

SCH Services offers one of the most comprehensive conformal coating training programmes available globally. With decades of experience across aerospace, automotive, defence, telecommunications, medical, and EMS sectors, we provide training that reduces defects, improves reliability, and enhances workforce confidence.

Our modular, tailored approach ensures every programme is relevant, practical, and aligned to international standards. Partnering with SCH means investing in long-term process stability, operator expertise, and customer satisfaction.

Why Choose SCH Services?

- Partnering with SCH Services means more than just outsourcing — you gain a complete, integrated platform for **Conformal Coating, Parylene & ProShieldESD Solutions**, alongside equipment, materials, and training, all backed by decades of hands-on expertise.
- **25+ Years of Expertise** – Specialists in coating technologies trusted by aerospace, medical, defence, automotive, and electronics industries worldwide.
- **End-to-End Support** – Guidance on coating selection, Parylene grades, masking strategies, application methods, inspection, and ProShieldESD integration.
- **Scalable Solutions** – From small prototype batches to full-scale, high-volume production, SCH delivers flexible capacity that grows with your needs.
- **Global Reach** – Responsive technical support and supply coverage globally
- **Proven Reliability** – A strong reputation built on quality, consistency, and customer satisfaction across services, equipment, and materials.

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