

## Responsible Person for Hazardous Paint Management

Presented by

**Fred Salome**

B.Sc. (Hon.), ACA Corrosion Technologist  
NACE Certified Coating Inspector (Marine)  
NACE Protective Coating Specialist

*A Training Course for people dealing with  
the management of lead and other hazardous paints*

**This course has received Australian Paint Approval Scheme endorsement  
for PCCP Class 5 and Class 6 Accreditation**

### HAZARDS FROM METALLIC PIGMENTS IN PAINT

Lead is a substance that is toxic to humans and has no known beneficial biological function. Clinical lead poisoning has long been known to medicine, and lead is now recognised to have a detrimental effect on IQ, neuro-motor functions and behaviour, especially in children, even at low levels in the body. As our knowledge increases, the acceptable limit for lead in humans is constantly being lowered. Stricter controls on the release of lead to the environment are being promulgated via regulatory authorities.

Lead has been used in many industries and has become widely dispersed in our environment, especially in cities from motor vehicle emissions. Although lead is no longer used in new paint, its presence in old paints remains one of the main sources of lead pollution and lead poisoning in Australia.

Residual lead paint on industrial and civil structures is a potential source of environmental pollution, and lead paint in old buildings and dwellings is one of the most common sources of elevated blood-lead levels in children.

Other hazardous metallic pigments (chromates, arsenic and cadmium) have been used in paints over the years, and consideration is also given to the management of such other hazardous metallic pigments, as well as a number of non-metallic hazardous substances found in paints.

### WHOSE PROBLEM IS IT?

For industrial or civil structures, disturbance of old hazardous paint usually results from planned maintenance of the structures as a part of asset management. Such maintenance painting is most commonly carried out by specialised contractors, with an increasing tendency on the part of the asset managers to require Class 5 or Class 6 accreditation under the Painting Contractor Certification Program (PCCP).

### TARGET GROUPS

- Industrial Painting Contractors (owners, project managers, supervisors, leading hands, operators)
- Asset management, asset engineers
- Industrial maintenance engineers and project managers
- Occupational hygienists and health professionals involved in the management of hazardous paints.

## COURSE STRUCTURE

CTI Consultants Pty Ltd have developed this program to cater for the growing need within the maintenance painting industry for high level information and training in hazardous paint management (HPM).

This training program is designed to provide a sound *knowledge* base and explicit *guidance* mainly for those dealing with hazardous paint in industrial settings, at all levels of organisation. The course is structured around the recently revised AS/NZS 4361.1, *Guide to hazardous paint management, Part 1 – Lead and other hazardous metallic pigments in industrial applications*, and also touches on certain aspects of hazardous (mainly lead) paint in residential and commercial buildings.

The entire program consists of six separate units, and runs over two full days. Each unit consists of a blend of formal lectures and hands-on demonstrations or work-shops. All relevant skills required for designing or supervising a hazardous paint management project are taught and develop during the course.

## COMPETENCY ASSESSMENT

Participants are assessed by two 30-minute exams, one after the first three units, with another after the final three units. A certificate will be issued to all successful participants.

## BENEFITS

Participants will acquire the necessary skills, knowledge and training to qualify as a “Responsible Person for Industrial Lead Paint Management”, as defined in Australian Standard AS/NZS 4361.1, and to meet the corresponding training requirements for the Class 5 or Class 6 accreditation under the PCCP scheme.

## COURSE CONTENT

**Unit 1**, which reviews the health effects of hazardous metallic pigments and introduces the main issues, acts as an introduction for the remainder of the course.

Participants will learn why lead and other metallic pigments are hazardous, and their effects on humans, in particular to children and to workers. Basic exposure pathways for hazardous materials entering into the body are described, together with an introduction to medical surveillance of exposures.

Legislation covering environmental issues, worker protection and waste disposal will be introduced.

**Units 2, 3 and 4** provide detailed training in hazardous paint management, including identification of lead and other hazards in paint, assessment of paint condition, OH&S requirements for hazardous paint management and waste management.

These units also address methods for preparing or removing hazardous (mainly lead) paint in residential and commercial buildings, the methods for containment of dust and project clearance. The assessment and management of the impact of hazardous paint activities on soil and dust in and around structures (including occupied buildings) are discussed in detail.

The contents of Units 1 to 4 are of direct relevance to all those involved in hazardous paint management, whether in residential and commercial settings or for industrial applications, since the majority of the issues covered there-in are common to all hazardous paint management projects.

**Units 5 and 6** deal with matters specifically relevant to industrial HPM, covering industrial maintenance strategies and procedures, carrying out a simplified risk assessment, setting emission control levels, determining emission potentials, design parameters for large scale containments and establishing environmental monitoring programs. A workshop exercise of a typical project is used to develop these skills.

Other Hazardous Materials that are sometimes present in paint are also identified and briefly discussed, in line with the guidelines provided by PCCP for Class 6 accreditation.



## **VENUE AND REGISTRATION FEES**

The registration fee for the course is currently set at \$1,150 per person (plus GST) for courses held at selected venues in Sydney. This includes a course manual, written by Fred Salome and Emeritus Professor Brian Gulson of Macquarie University. Morning and afternoon tea and lunch are also provided.

CTI will also deliver the training as an in-house course for organisations with multiple participants, at your premises or site. Contact CTI for a specific quotation for such situations.

## **ABOUT THE PRESENTER**

**Fred Salome** is an industrial chemist with wide experience in assessing structures and dwellings for the presence of lead in paint, and in advising on how to best manage it. He has been involved since 1993 in writing specifications and carrying out environmental monitoring for numerous lead paint removal projects, involving both industrial projects and commercial buildings.

Fred acts as a consultant to a range of government organisations including the NSW RTA, Sydney Water Corporation, NSW Railcorp and various councils. Fred is a former chairperson of the Standards Australia sub-committee CH/3/11 "Lead Paint Management", and was a member of the panel of experts advising the Commonwealth EPA on its Lead Paint information campaign.

CTI Consultants has developed training courses on managing hazardous paint for a range of public and private clients and Fred Salome has participated on industry bodies including the LEAD Group, NSW Lead Task Force Lead-in-Paint Working Group, the CEPA panel of experts on lead in paint and two NSW RTA (now RMS) Value Management Studies for de-leading bridges.