

¡Bienvenida! Welcome! Bienvenue!

PCB Elimination Experiences

Expériences d'Élimination des PCB

Experiencias en la Eliminación de PCB

28/08/24

**CONTAMOS CON
INTERPRETACIÓN EN VIVO**
Las sesiones se darán en inglés,
francés y español

INTERPRETATION IS AVAILABLE
The webinar will be presented in
English, French, and Spanish

**L'INTERPRÉTATION EST
DISPONIBLE**
Le webinaire sera présenté en
anglais, en français et en
espagnol.

English, Spanish and French
interpretation available!



Interpretation

Agenda

Time (CEST)	Session	Speaker
3:00 - 3:15 p.m.	Our Work and Experiences on PCB Projects	UNITAR - Sofia SCHLEZAK
3:15 - 3:30 p.m.	Technical Challenges and Opportunities in PCB Projects	UNITAR - Mario MENDOZA
3:30 - 3:50 p.m.	First-hand Experience from Ethiopia	Ethiopian EPA - Mehari WONDIMAGEGN
3:50 - 4:05 p.m.	Practical Information on PCB	BRS Secretariat - Agustin HARTE
4:05 - 4:30 p.m.	Ask the Expert Session	PCB Sr Experts - Urs WAGNER and Mario MENDOZA



Questions:
Registration + webinar

Resources



(Some) questions we received

+170 registrants / +25 questions

How do you dispose Pure PCB oils?

Which disposal or treatment options are available?

Cost of elimination per ton?

Retrofilling efficiency?

List of recognized PCB eliminators worldwide?

What is the best effective approach to address PCB in open systems?

Success in the elimination of PCBs in oils through dechlorination?

What can be in situ techniques for treatment of PCB?

How effective are the analyses carried out by the L2000 analyzer?

Is there a quick way/mechanism that has been developed to conduct a visual inspection?

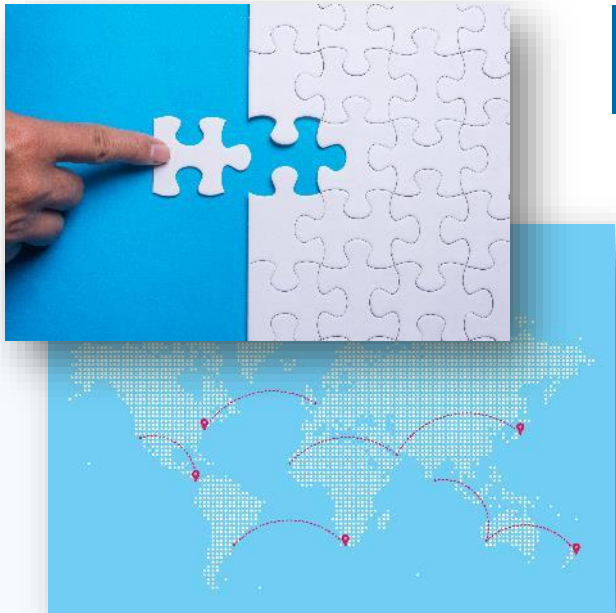
Could you give some examples of regulations?

PCB projects

Our work and Experiences

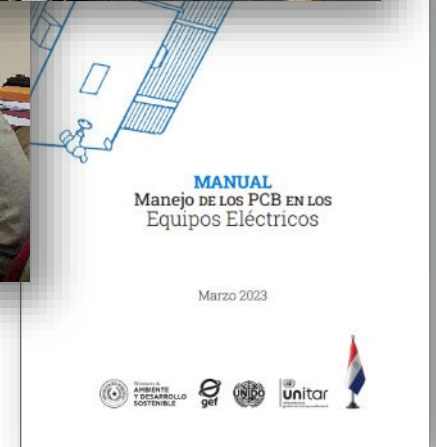


Technical support



Recent projects

- Ethiopia
- Paraguay
- The Gambia



Technical collaboration

- Stockholm Convention - Small Intersessional Working Group on PCB
- Stockholm Convention – 6th Review and Needs Assessment 2026-2030

Project partners



From zero to elimination...

Training Modules

in
English and
Spanish

<https://pcb.unitar.org>



PCB Introduction

This module provides answers to questions like: What are PCBs? In which application are they used? What is the international context and their role under Stockholm Convention?



PCB Inventory

This module explains the basics of PCB inventories such as definition, preparation, inventory teams, protection, and other elements to be taken into account to organize and implement a successful PCB inventory.



PCB Management Plan

This module provides information on the national PCB management plan, its objectives and structure as well as guidance for PCB management for facilities.



Occupational Health, Safety and Accident prevention & Response

This module is all about health and safety! It provides information about occupational health and safety in the life cycle of PCBs, safety during sampling and guidance on accident prevention, preparedness and response.



PCB Storage

This module informs about requirements for safe storage of PCBs. The three main aspects to be considered for each PCB storage are discussed such as selection of a location, safety requirements and structural conditions. Hereby it is distinguished between short-term and long-term storage.



PCB Sampling & Screening

This module provides information about sampling procedures and screening of PCBs. It will include information about the material and equipment that are needed for sampling of transformer oils and soils. Furthermore, step-by-step tutorials are provided for two common screening methods.



PCB Laboratory Analysis

This module gives useful information about PCB analysis with gas chromatography and what needs to be considered to establish the analysis in a laboratory.



PCB Contaminated Site Management

This module discusses five phases to sustainably manage PCB contaminated sites based in Stockholm Convention guidelines. The phases include site and remediation assessments and remediation management.



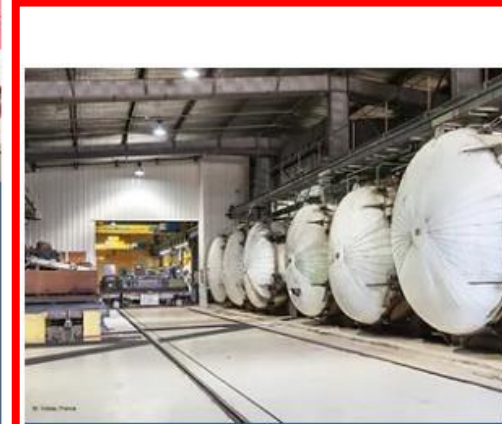
PCB Handling & Maintenance

When handling or maintaining equipment containing PCBs, special procedures should be applied to ensure the safety of the worker and to protect the environment. In this module we provide insights on such procedures.



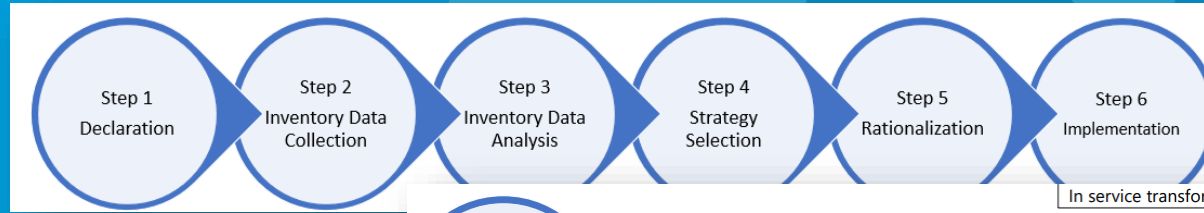
PCB Packaging & Transportation

This module provides safety requirements for the transportation of PCBs inside and outside facilities, including safe packaging and labeling instructions.



PCB Elimination

The elimination of PCBs is an important part of PCB management. This module presents how to approach the elimination by planning a strategy for treatment or disposal of PCB wastes and presents commonly used technologies.

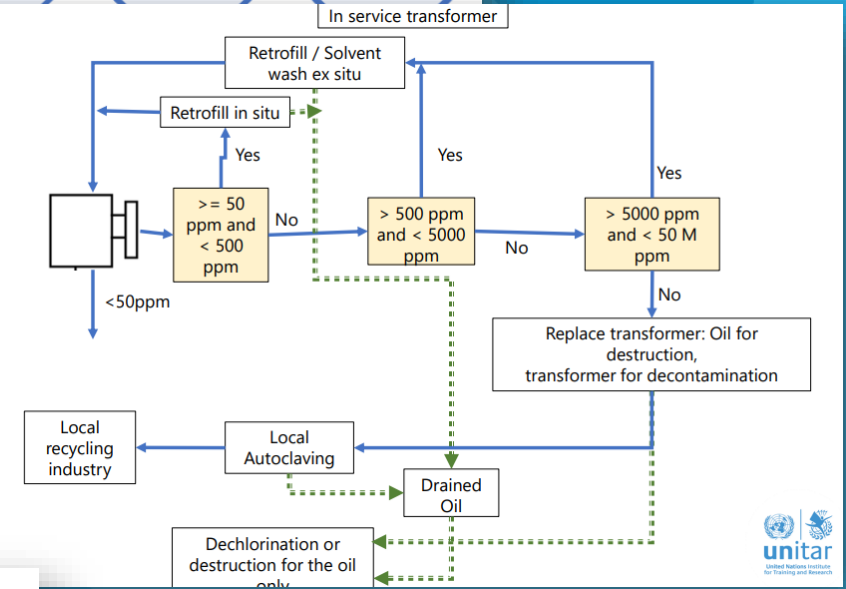



PCB PLATFORM
PCB Elimination

PART I: Elimination strategy
PART II: Established technologies



Selection of suitable technologies to groups.



DESTRUCTION AND DECONTAMINATION TECHNOLOGIES FOR PCBs AND OTHER POPs WASTES UNDER THE BASEL CONVENTION

A Training Manual for Hazardous Waste Project Managers

Volume A

Secretariat of the Basel Convention

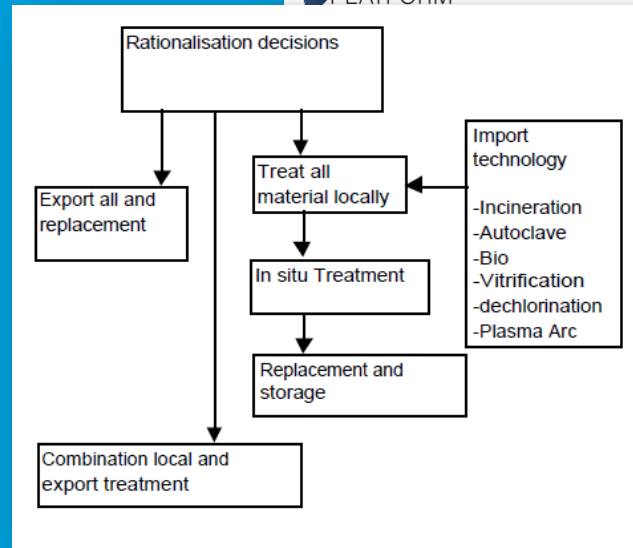


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Decontamination processes - Dechlorination


Dechlorination

Chemical Dechlorination is based on reactions with either an organically bound alkali metal or an alkali metal oxide or hydroxide.

- The chlorine content is converted to inorganic salts, which can be removed from the organic fraction by filtration.
- Can treat wastes up to 10 % PCB (in 2 h)
- The key to the process is the hydrogen donor with an oxidation potential low enough to produce nucleophilic hydrogen in the presence of base NaOH at low temperatures.



Overview of PCB disposal technologies - Carlo Lupi - UNIDO consultant



Thanks!



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QR CODE



2024 August _ PCB Elimination Experiences Webinar

This page contains compulsory questions.

* 1. Please, indicate your gender

- Female
- Male
- Non-binary
- Other
- I prefer not to disclose my gender

2. Please rate the following statements using the scale from strongly agree to strongly disagree

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree	Not applicable
The speakers were effective at presenting information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The speakers were effective at responding to questions of participants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments

* 3. Please, indicate your nationality

* 4. Please, tick the sector in which you work

- Central/national government
- State/provincial government
- Local government/authorities
- Private sector
- Academia
- Student

<https://www.surveymonkey.com/r/258PFWS>

Thanks!

Please, do not forget
the survey. We value
your feedback!