

WHERE DO WE FIND LEAD?

TIME FOR A CHANGE 1992-1999-2025

1. IMPROVED UNDERSTANDING OF HEALTH RISKS

- 1. Lower Thresholds for Health Effects
- 2. Vulnerability of Certain Populations

2. ALIGNMENT WITH UPDATED HEALTH GUIDELINES

- 1. CDC and OSHA Guidelines
- 2. International Standards

3. TECHNOLOGICAL ADVANCEMENTS

- 1. Improved Monitoring Techniques
- 2. Better Personal Protective Equipment (PPE)

4. RESPONDING TO STAKEHOLDER INPUT

- 1. Worker and Advocacy Group Concerns
- 2. Legal and Regulatory Pressures

5. ECONOMIC CONSIDERATIONS

- 1. Cost of Lead Exposure
- 2. Compliance Costs vs. Health Benefits

THE NUMBERS

Category	Current CCR Title 8 1532.1 (Pre-2025)	Revised CCR Title 8 1532.1 (2025)
Permissible Exposure Limit (PEL)	50 μg/m³ 8-hour TWA	10 µg/m³ 8-hour TWA
Action Level (AL)	30 μg/m³ 8-hour TWA	2 µg/m³ 8-hour TWA

MEDICAL SURVEILLANCE

Category	Current CCR Title 8 1532.1 (Pre-2025)	Revised CCR Title 8 1532.1 (2025)
Trigger for Medical	Exposure at or above AL on 30 or more	Exposure at or above AL on 1 or more
Surveillance	days/year	days/year*
Blood Lead Level (BLL)	DII > 50 Hay/all far tour company time to at an	PII > 20 Hay /all fave and took are PII > 15
I FIGGER FOR IMPAICAL	BLL \geq 50 µg/dL for two consecutive tests or	- · · ·
Removal	BLL \geq 60 μ g/dL for one test	µg/dL for two consecutive tests

EXCEPTION: Medical surveillance is <u>not required</u> for an employee who <u>is not exposed to lead at or above the action level for 10 or more days in any 12 consecutive months</u>, and who is not exposed on any day at or above $100 \ \mu g/m3$ as an 8-hour TWA, without regard to respirator use.

MEDICAL REMOVAL/RETURN

Category	Current CCR Title 8 1532.1	Revised CCR Title 8 1532.1 (2025)
Medical Removal Protection (MRP)	Workers must be removed if BLL ≥ 50 µg/dL	Workers must be removed if BLL ≥ 20 µg/dL
Return to Work (After Removal)	BLL must drop below 40 µg/dL	BLL must drop below 15 µg/dL
Frequency of BLL Testing	Every 6 months (if exposed at or above AL)	Every 2 months until BLL $< 15 \mu g/dL$, then every 6 months

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Category	Current CCR Title 8 1532.1 (Pre-2025)	Revised CCR Title 8 1532.1 (2025)
Exposure Monitoring	Initial monitoring unless previous data shows below AL; periodic monitoring required	Initial and periodic monitoring required if exposure at or above AL (=/>2 μ g/m3)
Worker Notification of Results	Within 5 working days after receipt of monitoring results	Within 2 working days after receipt of monitoring results

EXPOSURE MONITORING/NOTIFICATION

RESPIRATORY PROTECTION & PPE

Category	Current CCR Title 8 1532.1 (Pre-2025)	Revised CCR Title 8 1532.1 (2025)
Respiratory Protection	Required if PEL exceeded or as interim protection	More restrictive, required for any exposure at or above AL
Protective Clothing and Equipment	Required when exposed above PEL	Required when exposed above AL

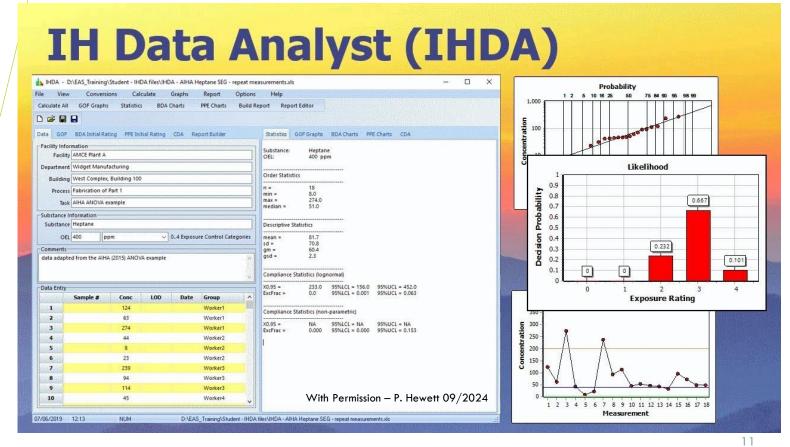
HOUSEKEEPING

Category	Current CCR Title 8 1532.1	Revised CCR Title 8 1532.1 (2025)
Housekeeping	Maintain clean surfaces, reduce	More stringent cleaning protocols, use of HEPA
Requirements	accumulation of lead dust	vacuums mandatory

TRAINING

Category	Current CCR Title 8 1532.1 (Pre-2025)	Revised CCR Title 8 1532.1 (2025)
Training Requirements	Annual training it exposure at or above Al	Expanded training content and frequency, focusing on new standards and medical risks

EXPOSURE ASSESSMENT



CASE STUDY - CA DEPT OF WATER RESOURCES



- Top-Down Approach Early Implementation 06/2024
- Early Introduction to Managers/Supervisors
- Air BZ samples by ICP NIOSH 7300M/7303 not AAS. >\$ increase X4.4 Needed to achieve the LOD < AL 2 ug/m3.
- Identify all potential Pb exposure categories/locations. Welding, forklift, automotive, brass machining, legacy sandblast sites, paint booths
- Organize all Pb air monitoring for past 10 years. Formalize Negative Exposure Assessment process and keep NEA as living documents
- Full implementation before 1/1/2025



Thank you for your time and attention!

QUESTION & ANSWERS

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