



Advancing Worker Health Protection

9th - 13th June | Aviva Stadium | Dublin

Basic characterisation and measurement processing

0. Welcome

NVvA 2024 – PBC Woudschoten 9-4-2024

IOHA 2024 – PDC-150 Dublin 9-6-2024



Introduction presenters



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Learning objectives PDC

1. Systematic and reproducible mapping of exposure parameters
2. Prioritisation of health hazard and exposure potential
3. Exposure estimation using models and decisions.
4. Preparation and validation of measurement data for testing against the occupational exposure limit value.
5. Not included: statistical analysis

Program

1. Basic characterisation and Similar Exposure Groups (AIHA 4th edition – EN689 clause 5, Annex A).
2. Mapping of exposure parameters
 - substance information & ranking risk potential
 - workplace factors
3. Use of exposure models

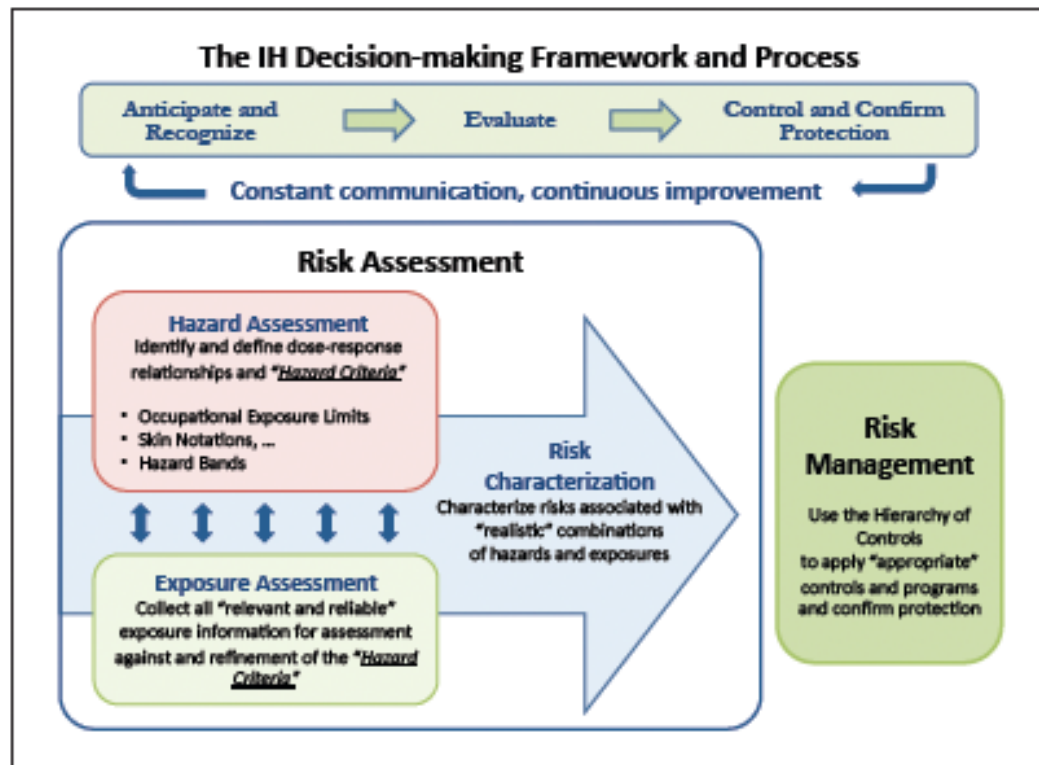
Break

4. PAS Air sampling workplaces
 - Converting sampling duration to limit value duration
 - Measurement uncertainty
5. Processing measurement outcomes
 - IHAaligner
6. Q&A, Discussion, Conclusion, Feedback

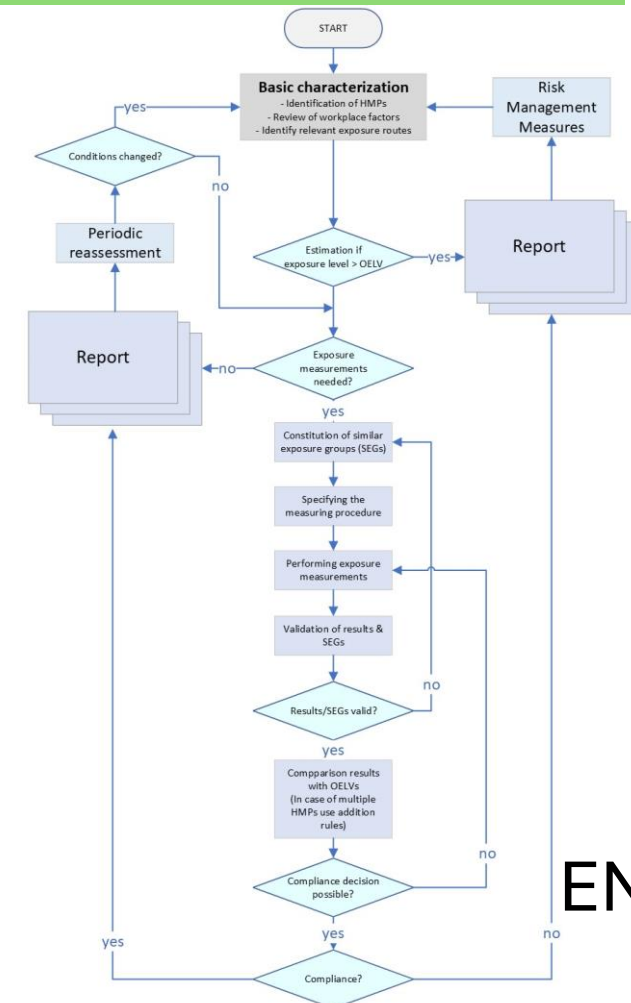
Occupational exposure assessment

	Health surveillance	Industrial/Occupational Hygiene (this PDC)	Product safety (REACH DNEL)
Primary goal	Workers health, occupational illness prevention	SEG OELV_{TWA} (legal) compliance	Safe industrial/ professional use (Acute and chronic), license to operate, Liability
Occupational load	All (chemical, physical etc.) interaction	Chemical substances and mixtures	(Single) manufactured or imported chemical substance (in articles)
Method	PAS, Biological monitoring, long term exposure and health registration	Workplace air monitoring, Compliance testing	Task, PROC, Use descriptors Operational conditions
Routes	Body load	Potential uptake through inhalation	Uptake though inhalation, skin (oral)
Duration	Working life	OELV_{TWA 8-hours(shift)} or OELV_{TWA 15-min (task)}	‘short term’ and ‘long term’

IH/OH Exposure assessment & control: An international aligned concept with (small) differences in tools!



AIHA 2015®



EN-689 2018