

# Training Curriculum in Industrial Hygiene (IH-01)

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A Training Curriculum is a knowledge development path recommended by the Industrial HSE in order to ensure the homogeneity of in-house competencies in Health, Safety & Environment throughout the Solvay Group.

A list of the available Training Curricula in other HSE domains, as well as HSE transversal knowledge is available [HERE](#).



## Who should follow this training curriculum?

- **Industrial Hygiene** knowledge - experience - expertise - competencies may be owned or distributed within several persons **ON SITE**, depending on the organization and roles.  
The following roles can contribute to IH on site: [IH specialist/expert](#), [HSE Manager](#), [Production Manager](#), [Site Manager](#).
- This can be complemented by consultants or by support from the [Zone IH Manager](#).

### RECOMMENDED PROFESSIONAL EDUCATION OR EXPERIENCE:



Obtain certificate according to local regulations



With national certifying bodies providing Occupational Hygiene Certification Programs which are recognized through the [IQHA NAR process](#) (National Accreditation Recognition by the International Occupational Hygiene Assoc.)

For N.A. Zone : ~~[CIH - Certified Industrial Hygienist](#)~~ (**LINK BROKEN FILED DOES NOT EXIST**) professional board certification and in compliance with requirements of the [American Board of Industrial Hygiene \(ABIH\)](#)



## Key / Essential knowledge (mandatory)

➡ IH GROUP REQUIREMENTS FOR CHEMICAL RISK ASSESSMENT AND MANAGEMENT: [Onboarding](#) to procedure [IND-HSE-IH-05-PRO](#) + [Self-assessment tool](#)

➡ CHEMICAL RISK ASSESSMENT ([LINK BROKEN FILED DOES NOT EXIST](#)) AND RELATED GUIDELINES :

★ Critical Task Exposure Screening-chemicals (CTES): [IND-HSE-IH-10.01-GUI](#) ( [Tool](#) + [Documentation](#) + [User guide](#) )

★ Acceptability of potential exposures to airborne chemicals at the workplace ( [IND-HSE-IH-05.02-GUI](#) )

★ AIR MONITORING:

✓ Air sampling ( [IND-HSE-IH-05.05a-GUI](#) )

✓ Analytical determinations ( [IND-HSE-IH-05.05b-GUI](#) )

✓ Keiron: Modelling of occupational exposure to airborne chemicals: [IND-HSE-IH-05.04-GUI](#) (+ [Documentation](#) )

➡ OCCUPATIONAL EXPOSURE LIMITS (OELs) & OCCUPATIONAL EXPOSURE BANDS (OEB) ([LINK BROKEN FILED DOES NOT EXIST](#)) , including Solvay hierarchy "rules" for selecting the relevant OEL:

★ Solvay Acceptable Exposure Limits (SAELs), [SAEL procedure - IND-HSE-PRAS-05-PRO](#), [SAEL list - CTES](#)

★ ACGIH-TLVs + OSHA PELs ( [1910.1000 – Air Contaminants](#), PELs are listed in tables Z-1, Z-2 and Z-3) and OSHA Substance Specific Standards

★ Solvay OEBs for chemicals ( [IND-HSE-IH-05.01-GUI](#) )

➡ CONTROL OF EXPOSURE TO AIRBORNE CONTAMINANTS :

★ Local Exhaust ventilation (LEV): Procedure [IND-HSE-IH-03-PRO](#) + Guideline [IND-HSE-IH-03-GUI](#) + [Self-assessment tool](#)

★ Minimum requirements for respiratory protection: procedure [IND-HSE-IH-20-PRO](#) ( [Onboarding EMEA zone](#) ) + Guideline [IND-HSE-IH-20.01-GUI](#) + [Self-assessment tool](#)

➡ NOISE EXPOSURE MANAGEMENT: [Onboarding](#) to procedure [IND-HSE-IH-07-PRO](#) + Guideline [IND-HSE-IH-07-GUI](#) + [Self-assessment tool](#)

➡ DATABASES AND TOOLS:

★ [SOCRATES](#) ( S olvay O C cupational R isk A sssessment Tool to E mployee S )

★ [IH Substances Database](#)

★ CTES (see above)

★ Keiron (see above, access to the tool on request to the IH Zone)

★ Safety Data Sheets (SDS) and Chemical inventory ([LINK BROKEN FILED DOES NOT EXIST](#)) ( [SDS Sinequa database](#) )

➡ HSE TRANSVERSAL TOPICS : [Key/Essential knowledge \(mandatory\)](#) (K/E; lower half of the table; columns related to Site Competencies)



## Other useful Information

- ➔ Managing skin exposure ( [IND-HSE-IH-05.06-GUI](#) )
- ➔ Legionellosis prevention: Procedure [IND-HSE-IH-08-PRO](#) + Guideline [IND-HSE-IH-08.01-GUI](#)
- ➔ Asbestos management in building and facilities: minimal requirements ( [IND-HSE-IH-14-PRO](#) ) + IH good practices for risk control ( [IND-HSE-IH-14.01-GUI](#) ) + [Self-assessment tool](#)
- ➔ Controlling IH hazards during welding activities ( [IND-HSE-IH-13-GUI](#) )
- ➔ Controlling exposures to diesel engine exhaust emission ( [IND-HSE-IH-18-GUI](#) )
- ➔ Group requirements in Occupational Health: [Onboarding](#) to [IND-HSE-OH-08-PRO](#) (req. 3.2.1 & 3.2.2)
- ➔ [HSE transversal procedures & guidelines](#) :
- ✓ Personal Protective Equipment (Solvay Life Saving Rule #A): [Onboarding](#) to [Procedure on Minimum requirements + Guideline + Self-assessment tool](#) ?
- ✓ [Human BioMonitoring of exposure](#)
- ✓ [Maternity protection - IND-HSE-OH-05.01-GUI V1.2 Medical recommendations for maternity protection Guideline](#)
- ✓ Medical surveillance: [Risk-based medical surveillance process - IND-HSE-OH-11-GUI](#)  
[Content of medical surveillance - IND-HSE-OH-10.00-GUI](#)
- ➔ [HSE TRANSVERSAL TOPICS: Useful Information \(suggested\)](#) (UI; lower half of the table; columns related to Site Competencies)



## Contacts

- [WHO'S WHO IN THE INDUSTRIAL HYGIENE NETWORK](#)

**i** Questions or comments: please contact [Tony Huffman](#)