

Programme PET Course Human Exposure Assessment 2025

All onsite classes are in the [Huygens Building \(HG\)](#) [Elenor Oostrom Building \(EOS\)](#)

Find-your-way information and a map with the building location numbers you find [here](#)
 HG = location no. 27; TR = location no. 25; De Refter = location number 12

Information on registration and fees can be found at <https://toxcourses.nl/application-fees/>

Date	Time	Content	Room number
Tue—May-13	09:30 – 12:30	Introduction	HG02.052
	09:30 – 10:00	Welcome and tour-de-table with brief introductions of all participants (Paul Scheepers, Radboud University)	
	10:00 – 11:30	Introduction to the course programme (Paul Scheepers, Radboud University)	
	11:30 – 12:30	Risk Assessment paradigm – where does exposure assessment fit in? (Paul Scheepers, Radboud University)	
	12:30 – 13:30	Lunch at the food court The Refter in the Erasmus building	
	13:30 – 17:00	Principles – concepts – terminology	EOS N01.310
	13:30 – 15:00	Principles of exposure assessment and study designs (Eelco Kuijpers, TNO)	
	15:00 – 16:30	Exposure assessment and study designs (Jelle Vlaanderen, IRAS University Utrecht)	
	16:30 – 17:00	Questions/discussion (Paul Scheepers, Radboud University)	
Wed—May-14	09:30 – 12:30	Consumer exposures to chemicals	EOS N01.750
	09:30 – 10:30	General principles in consumer exposure assessments - RIVM perspective (Wouter ter Burg, RIVM)	
	10:30 – 11:30	Non-food consumer exposure & exposure modelling methods – ConsExpoWeb introduction (Wouter ter Burg, RIVM)	
	11:30 – 12:30	Aggregate exposure assessment of substances in personal care products and household cleaning agents & an introduction to the probabilistic aggregate consumer exposure model (PACEM) (Bas Bokkers, RIVM)	
	12:30 – 13:30	Lunch at the food court The Refter in the Erasmus building	
	13:30 - 17:00	Consumer exposure modelling	HG00.514
	13:30 – 15:00	Probabilistic modelling of exposure consumer scenarios with ConsExpo (Wouter ter Burg, RIVM)	
15:00 – 16:30	Probabilistic modelling of aggregate consumer exposures with PACEM (Bas Bokkers, RIVM)		

Date	Time	Content	Room number
Thu-May-15	09:30 – 12:30	Occupational exposure	HG00.065
	09:30 – 10:30	Occupational exposure measurements and modeling (Eelco Kuijpers, TNO)	
	10:30 – 11:30	Innovations in real-time workplace measurements (Ruby Vermoolen/Max Hennekes, TNO)	
	11:30 – 12:30	Risk management measures to mitigate exposure (Eelco Kuijpers, TNO)	
	12:30 – 13:30	Lunch at the food court The Refter in the Erasmus building	
	13:30 – 17:00	Environmental incidents and occupational accidents	EOS N01.310
	13:30 – 14:00	How data collection can inform risk assessment in a chemical incident setting (Paul Scheepers, Radboud University)	
	14:00 – 15:00	Framework and application of intervention values for chemical incidents	
	15:00 – 16:00	Dispersion modelling of toxic clouds and use of intervention values in a chemical incident setting with a demonstration of Areal Locations of Hazardous Atmospheres (ALOHA® version 5.4) (Paul Scheepers, Radboud University)	
16:00 – 17:00	Inhalation exposure levels outdoor/indoor and use of intervention values - ALOHA (Areal Locations of Hazardous Atmospheres (Paul Scheepers, Radboud University)		
Mon-May-26	09:30 – 12:30	Exposome with examples of applications (For this session some preparation is required!)	ONLINE
	09:30 – 10:30	Introduction to the exposome concept (Jelle Vlaanderen, IRAS-UU)	ONLINE
	10:30 – 11:30	External Exposome: Methodological approaches (Kees de Hoogh, Swiss TPH)	ONLINE
	11:30 – 12:30	Internal Exposome: Methodological approaches (Jelle Vlaanderen, IRAS-UU).	ONLINE
	12:30 – 13:30	Lunch break	ONLINE
	13:30 – 16:30	Case-studies occupational exposure	ONLINE
	13:30 – 15:00	Inhalation exposure modelling by using the Advanced Reach Tool (ART) (Ruby Vermoolen/Max Hennekes, TNO)	ONLINE
	15:00 – 15:30	Break	
	15:30 – 17:00	Exposure management and preventive control measures with the Exposure Control Efficacy Library (ECEL) (Ruby Vermoolen/Max Hennekes, TNO)	ONLINE
Tue-May-27	09:30 – 17:00	Presentations of projects and course evaluation	
	09:30 – 12:30	Presentations of projects by participants (part I)	ONLINE
	12:30 – 13:30	Lunch break	ONLINE
	13:30 – 16:00	Presentations of projects by participants (part II)	ONLINE
	16:30 – 17:00	Course evaluation (Paul Scheepers, Radboud University)	ONLINE