

Course

Exposure Assessment of plant protection products

Do you want to learn how to apply existing guidance and approaches in exposure assessment? In the authorization of plant protection products, the potential risks of active ingredients and products for the environment are assessed at EU and MS level using governmental guidance. This online course focuses on exposure assessment of groundwater and surface water and on emission from greenhouses. This will include the new developments for exposure in the top layer of the soil (PEARL soil exposure) and optimization of parameters for non-equilibrium sorption (PEARLNEQ). Also the latest insights in greenhouse emissions, both in soil bound and soilless situations will be addressed (latest release of GEM).

Target group

This online course has been designed for professionals using guidance for the authorization of plant protection products:

- Regulators working for admission authorities who apply the guidance for their dossier evaluations.
- Consultants and business representatives working for industry and/or consulting agencies who apply the guidance for dossiers (evaluation, preparation and submission).
- Scientists performing modelling research, applying the latest and newest available guidance.

Results

After successful completion of this course, you will have gained new knowledge and approaches which you have practiced in hands-on assignments and which you can directly apply in your daily work.

Date	10 - 31 March 2022
Location	Online
Duration	3 weeks 1 credit

Course leader W.H.J. (Wim) Beltman MSc,
Wageningen Environmental
Research

Outline and topics

This course offers you an attractive mix of live virtual classrooms and self-paced learning including pre-recorded lectures by the Environmental Risk Assessment team, part of Wageningen Environmental Research. Online you can consult our experts directly and interact with fellow students. Hands-on assignments are offered throughout the course to practice your newly gained knowledge with different models.

The following content is offered in 4 modules:

- Module 1: Introduction
- Module 2: Leaching to groundwater
- Module 3: Exposure in surface water
- Module 4: Greenhouse emissions

Programme (times in GMT+1)

This course will guide you through Exposure assessment based on leaching to groundwater and aquatic exposure, including emissions from greenhouses. The virtual live kick-off is on Thursday March 10 at 13.00 am, from then onwards you have access to the learning materials. Six more live sessions with the course instructors are scheduled.

These interactive live sessions are dedicated to Q&A on the prerecorded lessons as well as to hands-on assignments in breakout rooms.

Module 1 Introduction

- Problem formulation and protection goals in prospective
- ERA for pesticides
- Role of exposure assessment in risk assessment for organisms
- Regulatory context in EU, Central zone and the Netherlands

Module 2 Leaching to groundwater and exposure in soil

- Processes and parameters
- Guidance and model application
- Current and future developments
- Hands-on assignments using PEARL (including PEARL soil exposure), PEARLNEQ, and GeoPEARL

Module 3 Exposure in surface water

- Exposure in surface water – processes and parameters
- Exposure in surface water – guidance and model application
- Current and future developments in Exposure in surface water
- Hands-on assignments using FOCUS_SWASH, FOCUS_MACRO, FOCUS_PRZM, FOCUS_TOXSWA

Module 4 Greenhouse emissions

- Horticulture in The Netherlands, growing systems and application techniques of PPP
- Dutch greenhouse exposure scenarios (soilless and soil bound)
- Hands-on assignment on emissions from Greenhouses, using the latest release of GEM

Schedule of live virtual classroom sessions (2022) (times scheduled in GMT+1, unless otherwise stated)

- Support session: Thursday February 17 | 10.00 – 11.00
- Session 1: Thursday March 10 | 13.00 – 16.30
- Session 2: Tuesday March 15 | 10.00 – 11.00
- Session 3: Thursday March 17 | 9.00 – 12.30
- Session 4: Tuesday March 22 | 10.00 – 11.00
- Session 5: Thursday March 24 | 9.00 – 12.30
- Session 6: Tuesday March 29 | 10.00 – 11.00 (GMT+2)
(Preliminary session)
- Session 7: Thursday March 31 | 9.00 – 12.30 (GMT+2)

Requirements

This course is available on the online learning platform of WUR. Participants sign in with their personal guest account. And participants need to download all models beforehand via www.pesticidemodels.eu/home.

Practical information



The course fee is € 1,250 per person and gives you 4 months access to the course content.



Between 20 and 40 participants.



After completion of this course a personalised certificate is issued.

Registration

Enrollment is possible until January 28 2022, or until the maximum number of participants is reached. Register via www.wur.eu/academy.

[Register](#)

Wageningen Academy

We develop and organise courses for professionals, based on Wageningen University & Research expertise.

Contact

www.wur.eu/academy

Janine Quist, programme manager

E info.wageningenacademy@wur.nl

T +31 (0)317 – 48 40 93



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