

Advanced Course - On campus and Online (Hybrid)

# Aquatic Effect Assessment of plant protection products

**Do you want to apply existing guidance and new approaches in environmental risk assessment related to the authorization of plant protection products? This advanced course focuses on aquatic effects using the latest and newest available guidance and will also address new approaches for mixture toxicity, cumulative risk assessment, modelling and the calibration of the tiered effect assessment approach. During the course, attention will be paid to developments and discussions in the field of authorization of plant protection products.**

## Hybrid approach

For a full course package, with a combination of lectures, hands-on assignments and an excursion, we invite you to follow the course on campus. If you prefer an online edition, you are welcome to sign up to attend the live lectures via an online platform.

## Content & Result

In this course we focus on aquatic effect assessment and the linking of exposure to effects, including: issues in each of the tiers, geomean approach, species sensitivity distributions, micro- and mesocosm studies, realistic worst-case exposure profiles, statistical power, recovery option, refined exposure testing and TK/TD modelling, mixture toxicity and cumulative risk assessment, calibrating the tiered effect assessment approach and consistency of the tiered approach, population modelling and landscape level risk assessment.

**Location:** Wageningen/Online  
**Dates:** 7, 8 and 9 March 2023  
**Courseleader:** Dr G.H.P. (Gertie) Arts  
Wageningen Environmental  
Research

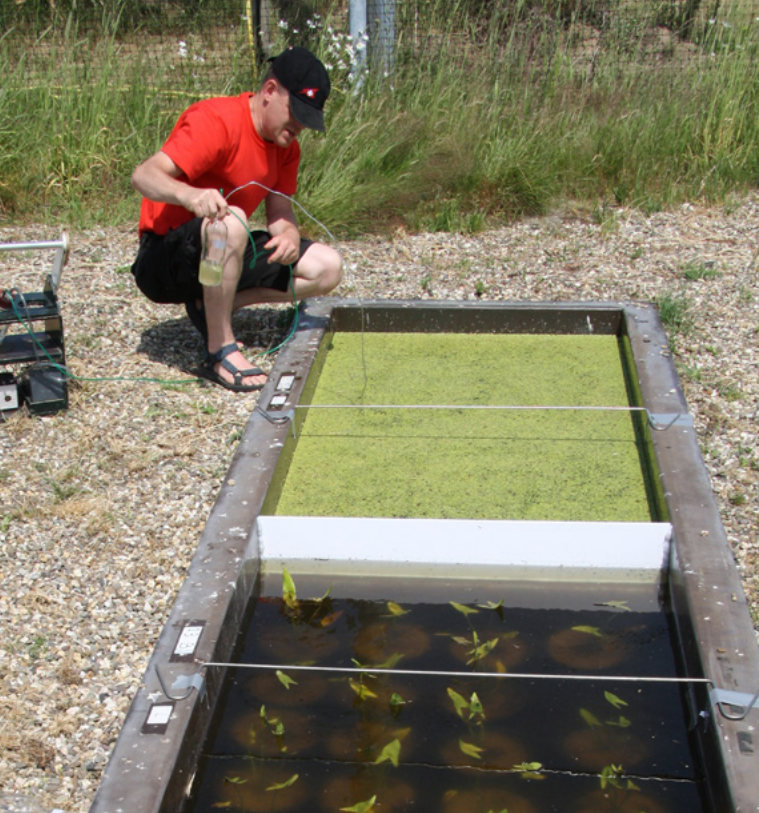
## Our Approach - On Campus edition

A hands on training by the combination of lectures, exercises and discussions for Tier 1 up to Tier 4. Back home you can apply new knowledge and approaches straight away in your daily work.

## Target audience

This course aims at 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 lower and higher tier research (experimental and modelling), applying the latest and newest available guidance



## On Campus Programme

### Day 0 Monday evening, 6 March 2023

- Welcome drinks and get together

### Day 1 Tuesday, 7 March 2023

- Opening and introduction of the tiered approach
- Tier 1: Aquatic data requirements, issues and regulatory endpoints
- Tier 2: 2A Geomean approach, 2B SSD approach
- Hands-on Tier 2A and 2B
- Tier 3: Current experimental practice in micro- and mesocosm studies
- Social event

### Day 2 Wednesday, 8 March 2023

- Tier 3: Hands-on: design a mesocosm study; statistical analysis (lecture); Lecture and hands-on: effect classification, study evaluation and RAC derivation for microcosm and mesocosm studies

### Mixture toxicity and cumulative risk assessment

- Mixture toxicity and cumulative risk assessment in regulatory ERA (Lecture)
- Hands-on: Risk assessment for combination products in regulatory ERA
- Calibrating the tiered effect assessment approach
- Visit to the experimental field station Sinderhoeve
- Social dinner

### Day 3 Thursday, 9 March 2023

- Tier 2C: Refined exposure testing and TK/TD modelling (Lecture and Hands-on)
- Future outlook: Population modelling and landscape level risk assessment
- Evaluation, certificate, closure
- Lunch

### Course instructors

#### Wageningen Environmental research

- Dr Gertie Arts, Dr Jan Baas, Dr Theo Brock, Dr Bas Buddendorf, Dr Ivo Roessink, Dr Louise Wipfler

#### Fraunhofer Institute - IME

- Dr Udo Hommen

## Practical information

### Course fee

The course fee is € 1.950,- and covers tuition, field excursion, access to the online learning environment BrightSpace, coffee/tea, lunches, welcome drinks, 2 dinners and transportation between campus and hotel.

Travelling and accommodation costs are not included.

Maximum numbers of participants: 30 (in class).

Online course fee is € 850,- and covers access to the in class lectures through MS Teams and the option to watch the recordings until March 19.

### Registration

Registration is possible via [www.wur.eu/academy](http://www.wur.eu/academy)

Registration deadline: 27 January 2023

## General terms and conditions

The General Terms and Conditions of Wageningen Academy apply to all activities of Wageningen Academy: [www.wur.eu/academy](http://www.wur.eu/academy)



## Our offer

Wageningen Academy also organises in company trainings, distance learning modules and summer schools. For more information visit our website.

## Contact

### Programme manager

Janine Quist MSc  
T +31 (0)317 482682  
E [Janine.Quist@wur.nl](mailto:Janine.Quist@wur.nl)

Today's knowledge,  
tomorrow's business

