



BETTER TRAINING FOR SAFER FOOD

ORGANISATION AND IMPLEMENTATION OF TRAINING ACTIVITIES ON INSPECTION AND CALIBRATION OF PLANT PROTECTION PRODUCT APPLICATION EQUIPMENT IN COMPLIANCE WITH THE PROVISIONS OF DIRECTIVE 2019/128/EC UNDER THE "BETTER TRAINING FOR SAFER FOOD INITIATIVE"

CONTRACT NUMBER (CHAFEA) 2018 96 03

PHASE 2

INFORMATION FOR NATIONAL CONTACT POINTS AND PARTICIPANTS

AINIA CONSORTIUM



UNIVERSITAT POLITÈCNICA
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Contents

1. COURSE OBJECTIVES.....	3
1.1 GENERAL OBJECTIVE	3
1.2 SPECIFIC OBJETIVES	3
2. TRAINING DATES AND LOCATIONS	4
2.1. TRAINING SITES	5
3. SELECTION CRITERIA..	10
4. COUNTRY ALLOCATIONS.	11
4.1. LISTOF INVITED COUNTRY PER SESSION	11
5. FACE TO FACE LOGISTICAL ARRANGEMENTS	12
<u>ANNEX 1:BACKGROUND AND MAIN TOPICS COVERED IN TRAINING</u>	<u>13</u>
<u>ANNEX 2: LEGISLATION GUIDANCE.....</u>	<u>15</u>
<u>ANNEX 3: AGENDA.....</u>	<u>16</u>
<u>ANNEX 4: TRAINING MATERIAL.....</u>	<u>23</u>
<u>ANNEX 5: CONTRACTOR CONTACT DETAILS.....</u>	<u>24</u>

The present second phase project will run over 2023-25.



1. COURSE OBJECTIVE

1.1 General Objectives

The main objective of this BTSF programme is training the staff of competent authorities and other stakeholders in order to keep them updated with the aspects of EU law in the area of inspection and calibration of Pesticide Application Equipment (PAE), being able to achieve a harmonized, objective and adequate process in all Member States (MS). Additionally, it is intended to spread this activity among other countries outside EU, as relevant food suppliers to the EU.

1.2 Specific Objectives

- Ensure a harmonized, practical and suitable training process for staff in charge of the organization of inspector's training activities in Europe.
- Accomplish with the received mandate from European Commission in the sense of being ready to inspect all type of PAE, providing technical information of all type of PAE suitable to be inspected.
- Keep participants updated with the latest developments in the spray application technologies.
- Propose the requested knowledge and methods so that the staff in charge may guarantee a stand level of quality, not only during the training activities but also during the inspection procedure itself.
- Provide main guidelines and clear procedures on important aspects of calibration and maintenance of PAEs.



2. Training dates and locations.

The dates for the sessions in 2024 and 2025, their locations as well as the corresponding datelines for applications are provided in the following table.

Three days of face to face training starting the afternoon of the first day and finishing noon the last day. Participants are requested to arrive during the morning of the beginning of the course and leaving when the course finishes.

Note that the dateline for applications are, in general, one month before the starting date of the course due to organisational purposes.

However, should you have already identified your participant; we encourage you to send the registration forms before the datelines.

The sessions will be in held in:

- Torino (Italy)
- Barcelona (Spain)
- Wageningen (Netherlands)
- Montpellier (France)
- Skierniewice (Poland)

Training session	Dates	Location	Deadline for the reception of applications
Session 1	27 th February -1 st March 2024	Torino (Italy)	15 th January 2024
Session 2	28 th -31 st May 2024	Barcelona (Spain)	28 th March 2024
Session 3	2 nd -5 th July 2024	Wageningen (The Netherlands)	2 nd May 2024
Session 4	10 th -13 th September 2024	Montpellier (France)	10 th July 2024
Session 5	6 th -9 th May 2025	Skierniewice (Poland)	20 th March 2025
Session 6	17 th -20 th June 2025	Barcelona (Spain)	17 th April 2025



2.1 Training sites

A total of 4 locations that have been identified over 4 different countries by the consortium and that have been chosen based on the following selection criteria:

- Suitability according to the training needs and with the technical and coordinating support of our Technical Partners (INHORT, DiFASA, AERES Teck-SKL and UPC).
- Suitability of the training rooms and IT resources and support.
- Availability of hotels with suitable facilities and services with accommodation according to the standards set by the tender.
- Proximity of an international airport with direct connections to EU main capital cities.
- Attractiveness of the location and possibility to organise social events.

The responsibilities for the organization and training sessions will be shared between AINIA and AETS, getting technical support from the UPC and the technical partners.

Geographical viability of the locations proposed and logistical arrangements

Venue 1

Description

Italy - Turin

Accommodation

Hotel NH TORINO CENTRO
C.so Vittorio Emanuele II, 104,
10121 Torino, Italy

https://www.nh-hotels.com/en/hotel/nh-torino-centro?utm_campaign=local-gmb&utm_medium=organic_search&utm_source=google_gmb

Hotel NH Torino Centro is located 164 feet from the Vinzaglio Metro Station and offers free Wi-Fi throughout. It is a 5-minute walk from Torino Porta Susa Metro and Train Station.

The Centro is also less than 656 feet from the Industrial Union, the Gallery of Modern Art, and the Bruno Caccia Courthouse. You will also find shops, restaurants, bars and cafés in the area.

This NH hotel features a unique and elegant style. All rooms and suites are classically furnished with air conditioning and satellite TV.





Means of transport and accessibility

The Turin-Caselle Sandro Pertini International Airport is the most important airport in the Piedmont region in Italy. It is situated at 15 kilometres from the city center. More than 3.1 million passengers used this airport in 2013. The airport receives direct flights from the main Spanish and European cities, as well as others around the world.

Appeal of the location and social event

Located on the north of Italy, Turin is the capital of the Piedmont region and it is surrounded by the Alps. It is a very important business and cultural city. Turin is well-known by its large number of art museums, restaurants, churches, opera theatres, parks, gardens and libraries, among other attractions. Turin has more than 40 of them, including the Egyptian museum, Agnelli Picture Gallery, and GAM, home of contemporary art.



A Social Event will be organized for the whole group one evening. A bus will take the group to visit the main touristic places in Turin (Piazza San Carlo, Piazza Castello, Palazzo Reale, Mole Antonelliana...) Dinner will take place later on at a typical Italian restaurant in the city center. After the event, a bus will take the group back to the hotel.

Venue 2

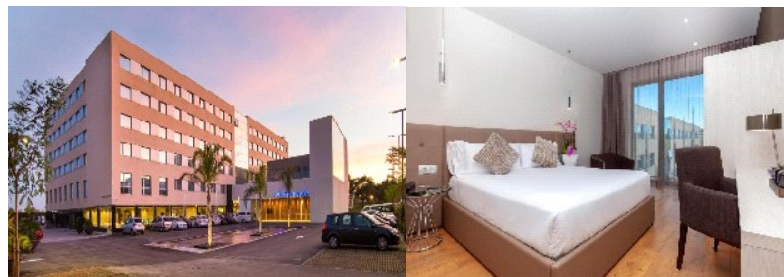
Description

Spain – Castelldefels (Barcelona)

Accommodation

Hotel SB BCN Events
Passeig de Can Rabadà, 22 - 24, 08860 Castelldefels,
(Barcelona)
<https://www.hotel-bcnevents Castelldefels.com/>

The modern SB BCN Events in Castelldefels offers an outdoor pool and free Wi-Fi. The spacious, air-conditioned rooms offer views of the Olympic Canal or mountains and have plasma-screen TVs. The SB BCN Events is 15 minutes' drive from Barcelona Airport and 20 minutes from central Barcelona. It is 25 minutes' walk from Castelldefels Beach and 4 minutes' walk from a large shopping center.



Means of transport and accessibility

The Barcelona "El Prat" Airport is one of the most important airports in Spain; it is sited eight kilometres west of the city and handles a significant number of international connections. Barcelona also offers high speed railway connection with Madrid, what has converted Barcelona into a main business and tourist destination

It is very well connected by land and air, and, being on the Mediterranean coast, also by sea. Barcelona is also one of the Spanish cities which is closest to the main European capitals.



The "Hotel Front Air" is very close to the airport and to the University of Catalonia (Barcelona School of Agricultural Engineering, ESAB) where the training session will be implemented.

Appeal of the location and social event

Barcelona is in the north-east of Spain. It is very well connected by land and air, and, being on the Mediterranean coast, also by sea. Barcelona is also one of the Spanish cities which is closest to the main European capitals.

Barcelona's international airport is only 12 km from the city and receives direct flights from the main Spanish and European cities, as well as others around the world. It also has a high-speed train linked with Madrid, the AVE, and is linked to other major cities in Spain as Valencia by speed trains as EUROMED



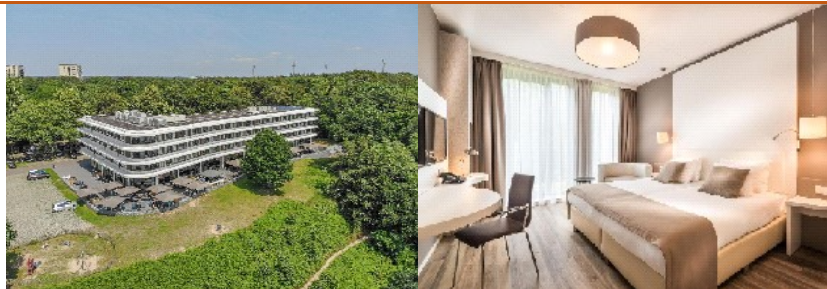
A Social Event will be organized for the whole group on Thursday evening. A bus will take the group to visit the main touristic places in Barcelona (Ramblas, Paseo Marítimo, Cathedral...). Dinner will take place later on a typical Catalan restaurant in the middle of the city center of Barcelona.

Venue 3

Description

Wagenigen - Netherlands

Accommodation



Fletcher Hotel-Restaurant de Wageningsche Berg
Generaal Foulkesweg 96, 6703 DS Wageningen, Netherlands
<https://www.hoteldewageningscheberg.nl/>

Offering a restaurant, Fletcher Hotel-Restaurant De Wageningsche Berg is located in Wageningen at river Nederrijn, on the edge of National Park Hoge Veluwe. Free Wi-Fi access is available.

At Fletcher Hotel De Wageningsche Berg you will find a 24-hour front desk and a garden. Other facilities offered include luggage storage and a laundry. An array of activities can be enjoyed on site or in the surroundings, including cycling.

Means of transport and accessibility

The participants will arrive at the International Airport of Schiphol (Amsterdam) and be transferred by train to the proposed hotel.

The transfer may take about 50 min.

Amsterdam Airport Schiphol is the main international airport of the Netherlands, located 9 kilometres southwest of Amsterdam, in the municipality of Haarlemmermeer, province of North Holland. It is the third busiest airport in Europe in terms of passengers. The airport is built as a single-terminal concept: one large terminal split into three large departure halls.

There is a train connection from the Schiphol Airport to Ede Wageningen every 20 minutes. The travel time is approx. 50-60 minutes.



Appeal of the location and social event

Wageningen is a municipality and a historic town in the central Netherlands, in the province of Gelderland. It is famous for Wageningen University, which specialises in life sciences. The municipality had a population of 37,434 in 2015, of which many thousands are students from over 150 countries.



In the Social Event, the participants will can enjoy of the visits in the Main Church of Wageningen, Venster, Jewish graveyard, Jewish graveyard and others nice places in the city.

Venue 4

Description

Montpellier - France

Accommodation

Mercure Montpellier Centre Antigone****
285 Boulevard De L'aeroporto International, 34000
Montpellier, France
<https://mercuremontpelliercentreantigone.com-hotel.com/>

The Hotel Mercure Center Antigone is found at the entrance to Montpellier, 0.6 mi from the Zenith concert venue and only 10 minutes' walk from the famous Place de la Comedie.

The hotel has a 689 ft² seating area full of natural light, and free Wi-Fi is provided throughout the hotel



Means of transport and accessibility

Montpellier-Méditerranée Airport or Aéroport de Montpellier-Méditerranée, also known as Fréjorgues Airport, is an airport in southern France. It is located 7 km east-southeast of Montpellier in Mauguio, in the Hérault department of the Languedoc-Roussillon region in France.



The airport opened in 1946, 8 years after the first flight to the area. The airport carries the 10th largest number of passengers in France. There are five airlines that operate year-round at the airport, and several others that operate seasonally or provide charter flights.

Also, The TGV train station, has good connections with other main stations in Europe.

Appeal of the location and social event

Montpellier is a city in southern France. It is the capital of the Hérault department. Montpellier is the 8th largest city of France, and is also the fastest growing city in the country over the past 25 years. Nearly one third of the population are students from three universities and from three higher education institutions that are outside the university framework in the city. Located on the south coast of France on the Mediterranean Sea, it is the third-largest French city on the Mediterranean coast after Marseille and Nice. During the Social Event, we will visit the main important places, monuments... in the city and we will enjoy a dinner in a typical French Restaurant.



Venue 5	Description
Skirviewice - Poland	
<p>Accommodation</p>	<p>Hotel Chopin Business & SPA **** Romualda Traugutta, 21 96-500</p> <p>Hotel Chopin is a comfortable four-star business hotel located in the centre of Sochaczew. They are in a convenient location on the route between Warsaw Lodz and Poznan. Travelling to Warsaw along the motorway and to the Chopin Airport takes about 40 minutes.</p>  <p>Hotel Chopin is located just 7 kilometres from Zelazowa Wola - the birthplace of Frederic Chopin. In the park there is our restaurant where you can enjoy delicious dishes and desserts representing both Polish and French cuisine.</p>  <p>His services: 57 spacious stylishly designed rooms, a smart hotel restaurant, Chopin Restaurant in Zelazowa Wola park, catering service, SPA & Wellness including: a Jacuzzi, steam and mud baths, sauna, massage and beauty saloon, hand and foot treatment room, conference rooms for nearly 500 people, including a 350-seat conference-and- ball room, day and night secured car park, transport service, free wireless Internet, room service.</p>
<p>Skirviewice Means of transport and accessibility</p>	<p>Participants will arrive at the international airport in Warsaw (Chopin Airport), one of the most important in Poland and offering service to the most important European capitals. Depending on the time of arrival, participants will be transferred to the hotel by private taxi or train. The distance from the airport to the hotel is about 50 minutes.</p>



Appeal of the location and social event

Skierniewice is a town in central Poland with 48,327 inhabitants (2016), situated in the Łódź Voivodship (since 1999), previously capital of Skierniewice Voivodship (1975–1998). It is the capital of Skierniewice County. The town is situated almost exactly halfway between Łódź and Warsaw.

The participants in the social event will be able to visit the most important areas of this little town and its history. The dinner will be in a typical Polish cuisine restaurant.



3. Selection criteria

Target (expected profile of the attendants)

Participants must meet the minimum requirements below to ensure they can follow and fully participate in this course. Participants who do not meet the minimum requirements should not be proposed for the training.

The criteria to attend the training session should be the following:

- Relevance to daily work: Staff of Competent Authority of the MS involved in official control activities and field inspectors of PAE. Delegates from candidate members and EFTA/EEA countries can also be included.
- Sufficient level of language: participants should master the official language of the training sessions (English).
- Ability to share their experience: priority will be given to participants whom the position will allow to share with colleagues the outputs of the training.

You are kindly invited to contact with your EU SUD contacts (Sustainable Use Directive) in order to have the more suitable profiles for this course (see table in Annex 2).



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4. Country allocations.

A total of 20 seats/session will be allocated according the table below.

4.1 LIST INVITED COUNTRIES PER SESSION (NEW FEBRUARY 2024)



MS	Invited countries	SESSION 1	SESSION 2	SESSION 3	SESSION 4	SESSION 5	SESSION 6	TOTAL
		REAL	Objec.	Objec.	Objec.	Objec.	Objec.	Objec.
1	Austria	0	0	1	0	1	1	3
2	Belgium	0	1	0	1	0	1	3
3	Bulgaria	2	2	0	0	0	0	4
4	Croatia	0	1	0	1	0	1	3
5	Cyprus	1	0	1	0	1	0	3
6	Czech Republic	0	1	0	1	0	1	3
7	Denmark	0	0	1	0	1	0	2
8	Estonia	0	1	0	1	0	1	3
9	Finland	0	0	1	0	1	0	2
10	France	0	0	0	1	1	0	2
11	Germany	1	1	0	1	1	0	4
12	Greece	0	0	1	0	0	1	2
13	Hungary	0	1	0	1	1	0	3
14	Ireland	0	0	1	0	1	1	3
15	Italy	1	0	1	1	1	0	4
16	Latvia	0	1	0	1	0	1	3
17	Lithuania	0	0	1	0	1	0	2
18	Luxembourg	0	1	0	1	0	1	3
19	Malta	0	1	0	1	0	1	3
20	Netherlands	1	0	1	0	1	0	3
21	Poland	0	1	0	1	0	1	3
22	Portugal	1	0	1	0	1	1	4
23	Romania	2	0	0	1	0	0	3
24	Slovakia	0	0	1	0	1	1	3
25	Slovenia	0	1	0	1	0	1	3
26	Spain	0	0	1	0	1	1	3
27	Sweden	0	1	0	1	0	1	3
Potential Candidate Countries and EFTA/EEA	Invited countries	SESSION 1	SESSION 2	SESSION 3	SESSION 4	SESSION 5	SESSION 6	TOTAL
		Objec.	Objec.	Objec.	Objec.	Objec.	Objec.	Objec.
28	Albania	0	1	1	1	1	0	4
29	FYROM	0	0	1	0	1	0	2
30	Montenegro	0	1	0	1	1	1	4
31	Serbia	4	1	0	0	1	0	6
32	Turkey	2	0	0	1	0	0	3
33	Bosnia and Herzegovina	0	0	1	0	1	1	3
34	Kosovo	0	1	0	1	0	1	3
35	Islandia	0	0	0	1	0	0	1
36	Norway	0	1	0	0	0	1	2
37	Switzerland	0	0	1	0	1	0	2
38	North Ireland	0	1	1	0	0	0	2
39	Georgia	3	0	1	0	0	0	4
40	Moldova	0	1	1	0	0	0	2
41	Ukraine	0	0	1	0	0	1	2
GRAND TOTAL		18	21	20	20	20	21	120



5. FACE TO FACE LOGISTICAL ARRANGEMENTS

The European Commission will fund in full the visa, travel, accommodation (single occupancy), meals and field visit cost for all training participants during the days of training. No daily allowance will be paid on top of this. Any other costs are to be paid by the participants themselves.

Participants will arrive at the training venues on day 1 during the morning or the previous day, depending on flight connections. Training will start on the afternoon of this first day.

Return travel will be on the afternoon of day 4 (last day of training) or the next morning, according to flight connections.



Annex 1: Background and main topics covered in training

According to the mandatory topics specified in the official call published by DG SANTE, the following topics will be addressed during the course:

Lecture*	Title
1	PAE inspections: state of play in the EU
2	Application of ISO standards for inspections
3	Methodologies applied in MS concerning inspections
4	Users level of PAE: calibration, maintenance, preparation and operation
5	Hand held PAE and knapsacks sprayers. Specific risk and calibration
6	Personal protective equipment. Proper use, requirements, maintenance
7	Organization of inspection program. Data management. National standards applied in MS
8	Inspector's training organization
9	Derogations applied in MS regarding the need of inspections of certain PAE. Risk assessment
10	Evaluation and classification of PAE according to environmental contamination
11	New technologies for a better spray application process. Precision farming
12	Drones in agriculture. Potential uses for crop care

*Case studies, workshops and general discussion panels will be organized together with the lectures.

The programme of the Trainings is organized on in two half days and two full days, and it includes tutors' presentations, working groups and discussions.

The programme has been designed considering relevant pedagogical aspects as:

- ✓ Well balanced theory and practical (workshops, case studies,..) activities
- ✓ Topics organized in a logical sequence
- ✓ Tutor's skills according to assigned topics
- ✓ Time distribution aligned with interest and importance of the topics
- ✓ Balanced time distribution among tutors



The programme main topics will be:

	Welcome and presentation of BTSF course
	Initial test to evaluate the general background of the attendants as a group
Lecture 0	An Introduction about EU framework legislation related to PAE
Lecture 1	"PAE inspections: state of play in the EU"
Workshop L1	Practical introduction about PAE
Lecture 2	Application of ISO standards for inspections
Workshop L2	Equipment for inspection of sprayers
General discussion	Inspection procedure and equipment for inspections
Lecture 3	Methodologies applied in MS concerning inspections
Workshop L3 Part I	Full inspection procedure following ISO 16122-1&2 (boom sprayers)
Workshop L3 Part II	Full inspection procedure following ISO 16122-1&3 (orchard sprayers)
Workshop L3 Part III	Full inspection procedure of alternative PAE (knapsacks, hand held...)
Lecture 4	Users level of PAE: calibration, maintenance, preparation and operation
Workshop L4	Calibration process in the field – use of new developed tools for calibration
General discussion	Inspection and calibration of PAE
Lecture 5	Hand held PAE and knapsacks sprayers. Specific risk and calibration
Workshop Lecture 5	Calibration tools and procedures for hand held sprayers
General discussion	Discussion about inspection procedure and calibration
Lecture 6	Personal protective equipment. Proper use, requirements, maintenance
Workshop Lecture 6	"TOPPS-WATER PROTECTION" – Best Management Practices
Lecture 7	Organization of inspection program. Data management. National standards applied in MS
Case Study	How to deal with inspection process of other PAE
Lecture 8	Inspector's training organization
Case study L8	Design and organization of an inspector's training program
Lecture 9	Derogations applied in MS regarding the need of inspections of certain PAE. Risk assessment
Lecture 10	Evaluation and classification of PAE according environmental contamination
Workshop Lecture 10	STEP WATER/EOS -Sprayer technology – Protecting water
Lecture 11	New technologies for a better spray application process. Precision farming
Workshop Lecture 11	EU projects -INNOSETA, OPTIMA
Lecture 12	Drones in agriculture. Potential uses for crop care
	After training test – Evaluation of the attendants as a group
	General conclusions -Results before/after training tests
Conclusions	Closing of the training



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Information to NCPs & Participants – 2024-2025

Annex 2: Legislation guidance

The contents and activities of this PAE training course are totally aligned and linked with the following actions and documents:

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE EUROPEAN COUNCIL, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS The European Green Deal
COM/2019/640 final [Link](#)

The FARM TO FORK STRATEGY for a fair, healthy and environmentally-friendly food system.
[Link](#)

EU BIODIVERSITY STRATEGY FOR 2030 - [Link](#)

NEW COMMON AGRICULTURAL POLICY - [Link](#)

We kindly recommend you to contact your EU SUD Experts, if necessary, to invite the most suitable candidates for this BTSF TRAINING. See below, in the table, the references:



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COMMISSION EUROPEENNE*EUROPEA	EU Body - European Union		Bas.Drukker@ec.europa.eu
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ANNEX 3: AGENDA

Detailed contents per day

PROGRAMME OF COURSE

		Day 1	
Time		Activity	Training Objective / Subjects Covered
13h30	14h00	Welcoming Snack	Welcome of trainees and registration <ul style="list-style-type: none">• Delivery of training material• Welcome address
14h00	14h15	BTSF Programme	Introduce Better Training for Safer Food programme and the project Course: "Inspection and calibration of pesticide application equipment in professional use" <ul style="list-style-type: none">• Presentation of the programme and visits
14h15	14h45	Introduction	Presentation of the training course. Resume of previous questionnaire. Initial test. Tutor: Emilio Gil <ul style="list-style-type: none">• Presentation of tutors• Presentation of participants• Brief explanation of the participants about the situation in their countries. Themes of specific interest
14h45	15h15	Initial test	Initial test to evaluate the general background of the attendants as a group Tutor: Emilio Gil <ul style="list-style-type: none">• Multi-choice questionnaire• Anonymous• Technical and legislative questions about inspection and calibration of PAE



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Information to NCPs & Participants – 2024-2025

15h15	16h00	Lecture 1	<p>“An introduction to EU legislative framework regarding inspection and certification of pesticide application equipment”</p> <p>Tutor: Emilio Gil</p> <ul style="list-style-type: none"> • Directive 2009/128/EC establishing a framework for Community action to achieve the sustainable use of pesticides • New requirements for plant protection product application equipment (Article 8 of Directive 2009/128/EC) including relevant new standards for inspections (ISO 16122 series), certification (ISO 16119 series) and training • Official acceptance of approved standards by the Commission. Procedure • Legal organization of inspections in Europe. From Brussels to inspection’s workshops • Designated bodies for the inspection and certificate systems in place in MS • New regulation on official controls in EU (2017/625) • SUD-web based portal
16h00	17h00	Workshop (Lecture 1)	<p>“Practical introduction about PAE”</p> <p>Tutors: Emilio Gil & Jaco Kole</p> <p>Participants in groups will be introduced about most important elements and functioning of PAE. This introduction workshop will update the technical knowledge of all the participants.</p>
17h00	17h15	Coffee break	
17h15	18h15	Lecture 2	<p>“Application of ISO standard for inspection of PAEs”</p> <p>Tutor: Jaco Kole</p> <ul style="list-style-type: none"> • New improvements about inspection of sprayers in use. ISO 16122 and comparative changes regarding EN 13790 • How to deal with defects during the inspection procedure • Requirements
18h15	19h15	Workshop (Lecture 2)	<p>Equipment for inspection of sprayers</p> <p>Tutors: Gregz Doruchowski & Jaco Kole</p> <p>Participants in groups will be trained in technical characteristics and functioning of the different specific equipment required for an official inspection procedure. Pros and cons of different devices will be discussed.</p>
19h15	19h45	General discussion	<p>Presentation of the summaries and conclusions – Inspection procedure and equipment for inspections</p> <p>Tutors: Gregz Doruchowski & Jaco Kole</p> <ul style="list-style-type: none"> • Discussion about ISO requirements • Participants will discuss in groups about advantages/disadvantages of the different devices evaluated. • Discussion among groups • Summary of the different points of view
Day 2			
Time	Activity	Training Objective / Subjects Covered	



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Information to NCPs & Participants – 2024-2025

08h00	09h00	Lecture 3	"Methodologies applied in MS for complying with ISO and national standards for inspection of PAEs" Tutor: Jaco Kole <ul style="list-style-type: none">• Check list following ISO 16122 series• Tools for an adequate procedure: software for inspections• Manual of inspections• Inspection report, certificate. Evaluation of the results
09h00	10h15	Workshop (Lecture 3)	Attendants, by groups, will proceed for a complete inspection of a boom sprayer. Specific equipment for inspections will be used. Data collected during the inspections will be used for further discussion. Tutors: Gregz Doruchowski & Jaco Kole <ul style="list-style-type: none">• Attendants, by groups, will generate the inspection report and the final decision of the inspected PAE.• General discussion will be arranged at the end of the session
10h15	10h45	Coffee break	
10h45	12h00	Workshop (Lecture 3)	Attendants, by groups, will proceed for a complete inspection of an orchard sprayer. Specific equipment for inspections will be used. Data collected during the inspections will be used for a further discussion. Tutors: Gregz Doruchowski & Jaco Kole <ul style="list-style-type: none">• Attendants, by groups, will generate the inspection report and the final decision of the inspected PAE.• General discussion will be arranged at the end of the session.
12h00	12h30	Workshop (Lecture 3)	Attendants, by groups, will proceed for a complete inspection of other alternative sprayer (knapsack sprayer, hand held sprayers, pneumatic sprayers...). Specific equipment for inspections will be used. Data collected and specific encountered problems during the inspections will be used for a further discussion. Tutors: Gregz Doruchowski & Jaco Kole <ul style="list-style-type: none">• Attendants, by groups, will generate the inspection report and the final decision of the inspected PAE.• General discussion will be arranged at the end of the session.
12h30	13h30	Lecture 4	"Users level of PAE: calibration, maintenance, preparation and operation. Preparing the sprayer for work with minimum risks" Tutor: Emilio Gil <ul style="list-style-type: none">• Calibration and operation of sprayer equipment with minimum risk• How to calculate the adequate volume rate: APP DOSAVIÑA, https://dosavina.upc.edu• Nozzle's selection procedure• Maintenance and best management practices
13h30	14h45	Lunch	



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Information to NCPs & Participants – 2024-2025

14h45	16h45	Workshop (Lecture 4)	<p>Calibration process. Different tools and methods for boom and orchard sprayers</p> <p>Tutors: Andreas Herbst & Emilio Gil</p> <ul style="list-style-type: none"> • Use of different tools for calibration process: APP DOSAVIÑA, ISO calibration disc • Field crop sprayers and orchard sprayers' calibration procedure. • How to measure/select all the working parameters <p>Attendants will be divided into two groups and a complete calibration process for a boom sprayer and an orchard sprayer will be completed.</p>
16h45	17h15	Coffee break	
17h15	18h15	Lecture 5	<p>"Hand held PAE and knapsack sprayers. Specific risk, maintenance and calibration needs"</p> <p>Tutor: Gregz Doruchowski</p> <ul style="list-style-type: none"> • Special characteristics of hand held and knapsack sprayers • Operator's risk and methods to prevent • Need for an accurate use to reduce food residues • Particular problems regarding crops and situations
18h15	19h15	Workshop (Lecture 5)	<p>Calibration of hand held PAE. Procedure, tools and calculations</p> <p>Tutors: Andreas Herbst & Gregz Doruchowski</p> <ul style="list-style-type: none"> • Use of different tools for calibration process • Knapsacks and hand-held sprayers' calibration procedure. • How to measure/select all the working parameters • Inspection of knapsack sprayer following EN ISO 19932-3
Day 3			
Time	Activity	Training Objective / Subjects Covered	
08h30	09h00	General discussion	<p>Discussion about encountered problems during the inspection and calibration processes.</p> <p>Tutors: Andreas Herbst & Emilio Gil</p> <p>Attendants will discuss, by groups, the encountered problems during the inspection process. Also will be discussed the interest and relationship between inspection and calibration. Ways to promote the calibration process among the users.</p>
09h00	10h00	Lecture 6	<p>"Personal protective equipment available to professional users and proper use and maintenance"</p> <p>Tutor: Jean Paul Douzals</p> <ul style="list-style-type: none"> • Machinery requirements • Risk mitigation measurements • Emergency actions to protect human health and/or the environment • Accidental spillage, contamination • Close transfer systems • Responsibility of professional users, report of incidents



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Information to NCPs & Participants – 2024-2025

10h00	10h30	Coffee break	
10h30	11h15	Workshop (Lecture 6)	<p>“TOPPS-WATER PROTECTION” – Best Management Practices (http://www.topps-life.org)</p> <p>Tutors: Paolo Balsari & Andreas Herbst</p> <p>Attendants will practice in workshop with new developments for a safe management of pesticides. Close incorporation systems, induction hopper. Also, aspects related with cleaning of sprayers will be addressed. General discussion will be generated around the BMP developed under TOPPS project.</p>
11h15	12h15	Lecture 7	<p>“Organization of inspection program. Data management. National standards applied in MS”</p> <p>Tutor: Paolo Balsari</p> <ul style="list-style-type: none"> • Experiences in different countries • Mutual recognition • Material, methodology, multimedia actions • Dissemination activities
12h15	13h00	Case Study Lecture 7	<p>“How to deal with inspection process of other PAE”</p> <p>Tutors: Paolo Balsari & Jean Paul Douzals</p> <p>Attendants will identify the problems/needs concerning the inspection procedure for other PAE (seed treatment, train sprayers, aerial applicators, dusters...). SPISE Advise collection will be used by attendants.</p>
13h00	14h15	Lunch	
14h15	15h15	Lecture 8	<p>“Inspector’s training organization. Key point for a success process. Need for a harmonization in EU. Differences among MS”</p> <p>Tutor: Emilio Gil</p> <ul style="list-style-type: none"> • How to organize a inspector’s training course • Importance of practical activities • Exam and marks • Differences among EU members • Contents, procedure, organization
15h15	16h00	Workshop (Lecture 8)	<p>“Design and organization of an inspector’s training program”</p> <p>Tutors: Emilio Gil & Jean Paul Douzals</p> <p>Participants will manage the different options, materials and organization of inspector’s training course at the different MS. Evaluation and discussion about the best way to organize and produce training material for inspectors.</p>
16h00	17h00	Lecture 9	<p>“Derogations applied in MS regarding the need of inspections of certain PAE. Risk assessment”</p> <p>Tutor: Andreas Herbst</p> <ul style="list-style-type: none"> • Derogations in different MS: causes and consequences • Environmental risk during the spraying application process • Risk assessment



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Information to NCPs & Participants – 2024-2025

18h00	22h00		Social event – dinner
Day 4			
Time		Activity	Training Objective / Subjects Covered
8h00	09h00	Lecture 10	<p>“Evaluation and classification of PAE according their environmental contamination risk”</p> <p>Tutor: Paolo Balsari</p> <ul style="list-style-type: none"> • Environmental risk during the spraying application process • Factors affecting environmental and operator’s risk • Methods for measuring risk and PAE classification according environmental risk and drift • Environmentally Optimized Sprayer – EOS and Drift Evaluation Tools (TOPPS project)
09h00	09h45	Case Study Lecture 10	<p>“STEP-WATER/EOS” – Sprayer Technology-Protecting water</p> <p>Tutors: Paolo Balsari & Jean Paul Douzals</p> <p>Participants will practice with this specific software a new webtool developed jointly by CEMA and the European Crop Protection Association ECPA to help stakeholders (farmers, advisors and contractors) to make a well thought through purchasing decision for a new sprayer - or retrofit old sprayers in terms of water protection to evaluate the environmental impact of sprayers. Discussion and working by groups will be organised at the end of the workshop.</p>
09h45	10h15	Coffee break	
10h15	11h15	Lecture 11	<p>“New technologies for a better spray application process. Precision farming to improve food quality”</p> <p>Tutor: Jean Paul Douzals</p> <ul style="list-style-type: none"> • low-volume spraying, variable application rate, sensors and other precision farming technologies • sensors for canopy characterization • new developments for drift measurements and drift reduction
11h15	12h00	Case Study Lecture 11	<p>European activities concerning precision farming. Application of new technologies</p> <p>Tutors: Paolo Balsari & Jean Paul Douzals</p> <ul style="list-style-type: none"> • Activity developed by EIP-FOCUS GROUP in Precision Agriculture. www.iof2020.eu • Need to improve knowledge among users. EU actions: H2020 – INNOSETA project (ref. 773864) (www.innoseta.eu) • Examples of precision agriculture on pesticide application equipment: H2020 – OPTIMA project (ref. 773718) • Practical activities related with the new INNOSETA training platform will be organized in groups • General discussion will be arranged at the end of the workshop



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Information to NCPs & Participants – 2024-2025

12h00	12h45	Lecture 12	<p>“Drones in agriculture. Potential uses for crop care”</p> <p>Tutor: Emilio Gil</p> <ul style="list-style-type: none">• Overview of the potential use of drones in crop protection• Mapping generation process• Variable Rate Application based on canopy maps• Use of information for a canopy characterization• Legal situation and encountered problems
12h45	13h00	Evaluation test	<p>Final test to evaluate the potential improvement of attendant’s knowledge after the training</p> <p>Tutor: Emilio Gil</p> <ul style="list-style-type: none">• Multi-choice questionnaire• Anonymous
13h00	13h30	Conclusions	<p>Conclusions and remarks after the three-days course. Results of before-after training test</p> <p>Tutor: Emilio Gil</p>
13h30	14h00	Closing of the Training	<ul style="list-style-type: none">• Remarks by the trainees & reporting on previous topic discussions• On-line evaluation of the training, tutors and organization• Distribution of training certificates
14h00			Lunch and Airport Transfer of participants



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Information to NCPs & Participants – 2024-2025

ANNEX 4: Training material, outcomes and dissemination activities

At the beginning of each workshop, objectives and implementation of the BTSF programs are going to be shortly explained and the general video about BTSF program will be shown.

Pedagogical tools implemented are:

- Preparation of participants before the session: a questionnaire is sent to each participant before the starting date. Questions are about any particular problems they faced in their country and any specific issues concerning the implementation of legislation they would like to discuss during the workshop (for example, new results of investigations). The objective of that questionnaire is to allow tutors to better know trainees' expectations and to better target practical exercises.
- A knowledge questionnaire at the beginning and at the end of the course will be fulfilled in anonymous way by the participants.
- Alternatively, balanced theoretical and practical sessions (in working groups), in order that trainees understand well theory and its implementation.
- Periods dedicated to Questions/Answers in order to implement a fluent discussion between tutors and trainees.
- Periods dedicated to share experiences between participants
-

Dissemination Kit

All participants will receive a Dissemination kit (USB) to enable them to actively disseminate course knowledge upon their return from BTSF training.

This contains the following could contain the next training materials:

- All course presentations
- Study notes on field trips and group activities/discussions and conclusions thereof
- The course syllabus
- The training information sheet
- Possible additional references for further study
- Other information and material delivered at the course such as quizzes, FAQs etc.

Dissemination questionnaire

Two to three months after the respective training session, participants will receive a standard questionnaire requesting information on the dissemination activities of the participant after the training, and details on differences in the approach adopted in day-to-day work following the training.



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Information to NCPs & Participants – 2024-2025

Self-assessment test

Furthermore, the programme will include an anonymous knowledge test to be carried out at the beginning and at the end of each training session in order to measure the impact of the training on the understanding of the participants of the subjects taught.

Participants are expected to agree to carry out the above tests and to reply to the surveys and questionnaires.

Please find more information regarding data protection here:

<https://btsfacademy.eu/training/mod/page/view.php?id=417>

ANNEX 5: Contractor contact details

This project is managed by:

AINIA

Project Manager in AINIA: Carmen T. Serrano (cserrano@ainia.es)

Training Coordinator: Emilio Gil (UPC)

Logistical arrangements for each training session will be handled by different event managers. All correspondence relevant to each training session should therefore be directed to the concerned Event Manager.

Training	Name of the responsible	e-mail address and other contacts of the relevant event managers
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