

WP2: Development of training courses

Training course

FOODQA: Fostering Academia

Industry Collaboration in Food Safety and Quality

Food safety management systems

Final report

Students

FOODQA partner: P&B (Consultores Associados, Lda., Portugal)

Local Scientific coordinators: Dr. Paulo Baptista



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1. SYLLABUS and CONTENTS

1.1. HACCP – Hazard Analysis and Critical Control Points

Teaching/contact time: 36 hours

a. **Target group:**

University students

b. **Learning outcomes:**

Trainees will:

- develop knowledge and understanding of the concept of hazard analysis in food safety;
- apply hazard analysis methodologies to specific cases and develop understanding of HACCP application.

c. **Minimum knowledge pre-requisites**(if any)

- Basic concepts of food safety including food preservation, food microbiology and food processing.



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d. General contents

(take as reference the contents already defined for the teaching materials)

Reference person: Eleutério Silva and Paulo Baptista

Teaching material: FOODQA e-book – Food Safety Manual Systems and ppt slides presentation - (HACCP) Attachment I FOODQA_Slides_HACCP_Training

	Sub-topic
1.	Introduction
2.	The concept of the HACCP system
3.	The principles of HACCP
4.	The HACCP methodology
4.1.	The HACCP Team
4.2.	Product description
4.2.1.	Raw material
4.2.2.	Final product
4.3.	Intended use for the product
4.4.	Construction of the flowchart
4.5.	Verification of the flowchart
4.6.	Hazard analysis
4.7.	Determination of critical control points
4.8.	Establishment of critical limits
4.9.	Establishment of monitoring system
4.9.1.	Monitoring system
4.9.2.	Monitoring methodology
4.10.	Establishment of corrective actions
4.11.	Establishment of verification procedures
4.11.1.	Validation of the HACCP plan
4.11.2.	Audits of the HACCP system
4.11.3.	Sample collection and analysis
4.12.	Documents and registers
4.12.1.	Types of documents and records
4.12.2.	Management of documents and records

Complementary/practicals

- Case-studies
- Visit to food factory

e. Evaluation: self-evaluation

Case-studies.



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1.2. IFS – International Featured Standards

Teaching/contact time: 36 hours

a. **Target group**

University students

b. **Learning outcomes:**

Trainees will:

- understand the importance of food management systems;
- achieve knowledge about the main issues in food safety management standards.
-

c. **Minimum knowledge pre-requisites**

- Basic knowledge on HACCP.

d. **Contents**

(take as reference the contents already defined for the teaching materials)

Reference Person: Paulo Baptista

Teaching material: FOODQA e-book – Food Safety Manual Systems and ppt slides presentation (Food Safety Management Systems – IFS)

	Sub-topic
0.	Introduction
1.	SENIOR MANAGEMENT RESPONSIBILITY
1.1.	Corporate policy/Corporate principles
1.2.	Corporate structure
1.3.	Customer focus
1.4.	Management review
2.	QUALITY AND FOOD SAFETY MANAGEMENT SYSTEM
2.1.	Quality Management
2.2.	Food Safety Management
3.	RESOURCES
3.1.	Human resources management
3.2.	Human resources
3.3.	Training and instruction
3.4.	Sanitary facilities, equipment for personnel hygiene and staff facilities
4.	PLANNING AND PRODUCTION PROCESS
4.1.	Contract agreement
4.2.	Specifications and formulas
4.3.	Product development/Product modification /Modification of production



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	processes
4.4.	Purchasing
4.5.	Product packaging
4.6.	Factory location
4.7.	Factory Exterior
4.8.	Plant layout and process flows
4.9.	Constructional requirements for production and storage areas
4.10.	Cleaning and disinfection
4.11.	Waste disposal
4.12.	Risk of foreign material, metal, broken glass and wood
4.13.	Pest monitoring/Pest control
4.14.	Receipt of goods and storage
4.15.	Transport
4.16.	Maintenance and repair
4.17.	Equipment
4.18.	Traceability (including GMOs and allergens)
4.19.	Genetically modified organisms (GMOs)
4.20.	Allergens and specific conditions of production
4.21.	Food Fraud
5.	MEASUREMENTS
5.1.	Internal audits
5.2.	Site factory inspections
5.3.	Process validation and control
5.4.	Calibration, adjustment and checking of measuring and monitoring devices
5.5.	Quantity checking (quantity control/filling quantities)
5.6.	Product analysis
5.7.	Product quarantine (blocking/hold) and product release
5.8.	Management of complaints from authorities and customers
5.9.	Management of incidents, product withdrawal, product recall
5.10.	Management of non-conformities and non- conforming products
5.11.	Corrective
6.	FOOD DEFENSE PLAN AND EXTERNAL INSPECTIONS
6.1.	Defense assessment
6.2.	Site Security
6.3.	Personnel and Visitor Security
6.4.	External Inspections

e. Evaluation: self-evaluation

Case-studies.



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2. PLANNING, ORGANIZATION

Organisational information

Venue:

- **HOTEL IBIS PORTO S. JOÃO:** Rua Dr. Plácido Costa - 4200-450 Porto – Portugal (map: <https://www.google.pt/maps/place/Hotel+ibis+Porto+Sao+Joao/@41.1803453,-8.6044499,15z/data=!4m5!3m4!1s0x0:0x747b302dae6bc9c5!8m2!3d41.1803453!4d-8.6044499>)
- **HOTEL EUROSTARS OPORTO:** Rua do Mestre Guilherme Camarinha, 212 - 4200-537 Porto - Portugal (map: https://www.eurostarshotels.co.uk/eurostars-oporto.html?_ga=2.154523192.1618707195.1515683758-360975937.1515683758)

Schedule at glance:

21st January: arrival

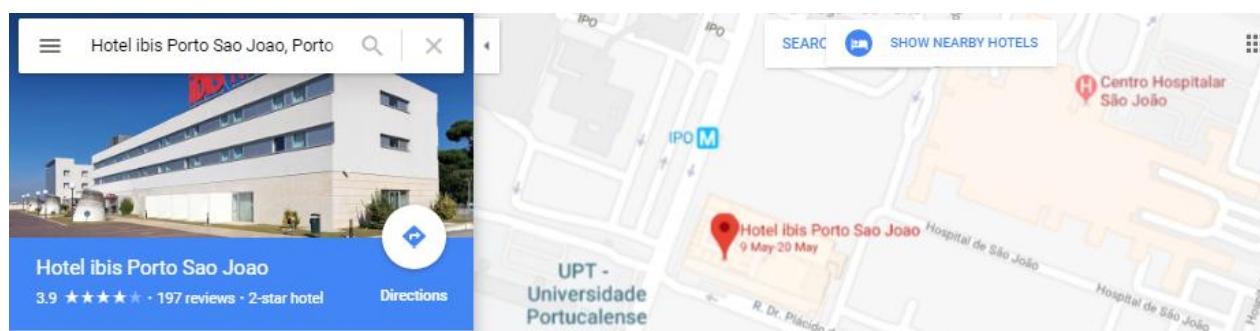
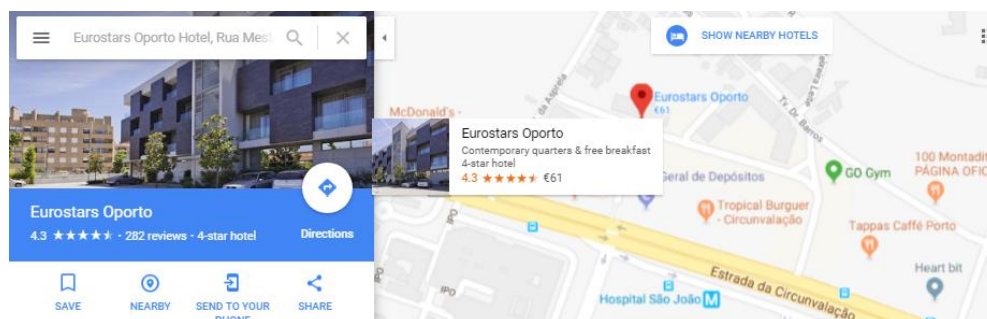
22th Jan, 9:00 a.m.: registration and start of the training course

22th Jan -2nd Feb: training (classes, visits, meetings, individual and group work)

3rd Feb: departure

Accommodation: Varied accommodation including hotels and apartments in Porto

Places where the training sessions took place:



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3. TRAINING COURSE TIMING

FOODQA_training_students_Jan2018_Portugal_Agenda

22nd January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	PART 1 – HACCP PRINCIPLES AND METHODOLOGY	ELEUTÉRIO SILVA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	PART 1 – HACCP PRINCIPLES AND METHODOLOGY	ELEUTÉRIO SILVA

23rd January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	PART 2- FOOD SAFETY MANAGEMENT SYSTEMS - IFS	PAULO BAPTISTA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	PART 2- FOOD SAFETY MANAGEMENT SYSTEMS - IFS	PAULO BAPTISTA

24th January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	PART 1- HACCP CASE STUDIES – GROUP WORK	ELEUTERIO SILVA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	PART 1- HACCP CASE STUDIES – GROUP WORK	ELEUTERIO SILVA

25th January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	HACCP INDIVIDUAL WORK (PART 1 / PART 2)– CASE STUDIES	ELEUTÉRIO SILVA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	IFS INDIVIDUAL WORK (PART 1 / PART 2)– CASE STUDIES	PAULO BAPTISTA



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26th January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	HACCP INDIVIDUAL WORK (PART 1 / PART 2)– CASE STUDIES	ELEUTÉRIOSILVA PAULO BAPTISTA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	IFS INDIVIDUAL WORK (PART 1 / PART 2)– CASE STUDIES	ELEUTÉRIO SILVA PAULO BAPTISTA

29th January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	PART 1- HACCP METHODOLOGY – ANALYSIS OF CASE STUDIES	ELEUTERIO SILVA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	PART 1- HACCP METHODOLOGY – ANALYSIS OF CASE STUDIES	ELEUTERIO SILVA

30th January 2018

SCHEDULE	TOPIC	TRAINER	LOCAL
All day	Visits	ELEUTÉRIO SILVA	PORTO

31th January 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	PART 2 – IFS REQUIREMENTS CASE STUDIES – GROUP WORK	PAULO BAPTISTA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	PART 2 – IFS REQUIREMENTS CASE STUDIES – GROUP WORK	PAULO BAPTISTA

1st February 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	IFS INDIVIDUAL WORK (PART 1 / PART 2)– CASE STUDIES	PAULO BAPTISTA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	HACCP INDIVIDUAL WORK (PART 1 / PART 2)– CASE STUDIES	ELEUTÉRIO SILVA PAULO BAPTISTA

2nd February 2018

SCHEDULE	TOPIC	TRAINER
09:00 – 13:00	PART 2 – IFS REQUIREMENTS CASE STUDIES – GROUP WORK	PAULO BAPTISTA
13:00 – 14:00	LUNCH BREAK	
14:00 – 18:00	PART 2 – IFS REQUIREMENTS – ANALYSIS OF CASE STUDIES	PAULO BAPTISTA

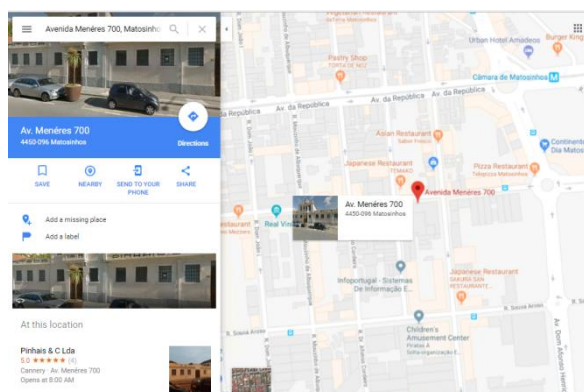
Teachers

Paulo Baptista – Ph.D. in Biotechnology – Food Processing

Eleutério Silva – Biochemistry degree – specialisation in food industries

TUTOR AND ORGANISATIONAL SUPPORT

3.1. Visit a cannery PINHAIS e Ca. Lda.



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4. LIST OF PARTICIPANTS

22 trainees

University	No.	Full Name
Al-Balqa' Applied University	1	Abdullah Mahmoud
	2	Mohammad Gharabli
	3	Lama Abu Al Nadi
	4	Balool Abu Muhaisen
JERASH	5	Alaa Al Sahahleh
	6	Ibrahim Nawaf Al Dairy
	7	Mohammad Nazzal
	8	Ziad Salem Al Aqeel
Jordan University of Science and technology – JUST	9	Katrina Mazin Al Nimri
	10	Lujain Jabr
	11	Marah Saleiman Al Taher
	12	Sanaa Bassam Al Saadi
	13	Tasnem Maher Al Jaber
Mutah University - (MU)	14	Eman Alif Al Mahdeen
	15	Ibrahim Al Jboor
	16	Yaseen Abdulhhammad Al Maaitah
University of Jordan- JO	17	Mays Abo Al Sondos
	18	Marah Al Hourani
	19	Noor Ramzi Ibrahim
	20	Nour Al Shamaia'a
	21	Raed Abdallah Othman
	22	Raed Al Saied Ahmad

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5. SIGNATURES

23rd January 2018

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Fostering Academia-Industry Collaboration in Food Safety and Quality
FOODQA training workshop for Students
Food safety management systems training for Students
From January 22, to Feb 2, 2018

Co-funded by the
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of the European Union

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17	Abdullah Mahmud			
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19	Reda Al-Said			
20				

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Food safety management systems training for Students

From January 22, to Feb 2, 2018

23rd January 2018

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No.	Participant Name	Institution	Email	Signature
1	Ibrahim Nawaf Al-Dar		ibrahimawaf@yaboo.com	
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35th January 2018

Hotel Ibis Porto 2, 1000 and Hotel Eurostars Obispo, Porto - Portugal

From January 31st to Feb 5th 2018

Flood safety management systems training for 200 people

FOODSA training workshop for 200 people

Forecasting Accidents-Injuries Collisions in Food Safety and Quality

24th-28th Feb 2018-10 EPPKA2-CBHE-JP

Forecasting Accidents-Injuries Collisions in Food Safety and Quality



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Food safety management systems training for Students

From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

22th January 2018

No.	Participant Name	Institution	Email	Signature
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22th January 2018

No.	Participant Name	Institution	Email	Signature
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

2nd February 2018

No.	Participant Name	Institution	Email	Signature
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20	Ibrahim Al Jbar	muth university	m-r-qinajali	

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Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal



2nd February 2018

No.	Participant Name	Institution	Email	Signature
1	Abir Alkhalil	Tarash University	Abir.Alkhalil@tarash.edu.jo	
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9	Ziad Salem Agel	Tarash University	Ziad.Agel@tarash.edu.jo	
10	Mohammed Al-Zaid	Tarash University	Mohammed.Alzaid@tarash.edu.jo	

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From January 22, to Feb 2, 2018

1st February 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

No.	Participant Name	Institution	Email	Signature
11	Abdul Muhaimin	Al-Balqa	abulmuhaimin@yahoo.com	
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

1st February 2018

No.	Participant Name	Institution	Email	Signature
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FOODQA training workshop for Students

Food safety management systems training for Students

From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

31th January 2018

No.	Participant Name	Institution	Email	Signature
11	Lujain Jaber	JUST	Lujain-jaber@just.edu.jo	
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13	Mohand Elhatabi	A-Balqa	mugbelhame@yahoocom	
14	Abdallah Mahmoud	A-Balqa	Abdallah338@gmail.com	
15	Sana Bassam Alsaedi	JUST	by4ever2011@wefind.com	
16	Yasreen Abdelhameed Almerahy	JUST	eg.yra98@ua.hoo.com	
17	Katrine Maria Al-Mini	JUST	Katrine.Maria@gmail.com	
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FOODQA training workshop for Students

Food safety management systems training for Students
From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

31th January 2018

No.	Participant Name	Institution	Email	Signature
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

30th January 2018

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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

30th January 2018

No.	Participant Name	Institution	Email	Signature
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6	Nour Al-Sawaid			Nour
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

29th January 2018

No.	Participant Name	Institution	Email	Signature
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From January 22, to Feb 2, 2018

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29th January 2018

No.	Participant Name	Institution	Email	Signature
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Food safety management systems training for Students

From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

26th January 2018

No.	Participant Name	Institution	Email	Signature
21	Rad Al Said		Rad.al Said	
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

26th January 2018

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Food safety management systems training for Students

From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

26th January 2018

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6	Alaa - Rakaballah		alaa.rakaballah@ibis.pt	
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

25th January 2018

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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

25th January 2018

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16	Mohamed El-Muhammad			
17	Abdullah Mahmoud			
18	Youssef Al-Muhammad		youssef.al-muhammad@univ.ao	
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From January 22, to Feb 2, 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

25th January 2018

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From January 22, to Feb 2, 2018

24th January 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

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15	Lujain Zaker			
16	Mohamed Shwabi			
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FOODQA training workshop for Students

Food safety management systems training for Students
From January 22, to Feb 2, 2018

24th January 2018

Hotel Ibis Porto S. João and Hotel Eurostars Oporto, Porto - Portugal

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23rd January 2018

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6. LIST of ADDITIONAL TRAINING MATERIALS

HACCP		comments
0 study case	Case_Study_ICE_Cream_all_H ACCP_example	Used in assesment
n1 Bread Company	Case_Study_HACCP_Bread_Co mpany_ES	Working group 01
n2 Mc Fruit Company	Case_Study_Mac_Fruit_ES	Working group 02
Case_study_0_audit findings	Images_Audit_Findings_ES	Group Work_1
Case Study 1	Meat poultry and meat products	Individual/group work 01
Case History 1	Cereal_Grain products	Individual/group work 02
Case History 2	Dairy	Individual work 01
Case Study 2	Storage of frozen food	Individual/group work 03
Case Study 3	Ready to eat, chilled smoked fish	Individual work 02
IFS		
Case_study_1_audit findings	Images_Audit_Findings_ES	Group Work_1
Case_study_2_aseptic_filling_PB	Process and product requirement	Group Work_2
Case_study_3_Food_Defense_PB	Food Defense	Group Work_3
Case_study_4_Housekeeping_Hygi ene_PB	Good practices hygiene	Group Work_4
Case_study_5_Pizza_Allergens_PB	Allergens	Group Work_5
Case_study_6_Product_Develop_“ Sandwich company”_PB	New products development	Group Work_6
Case_study_7_Recall_PB	Recall	Group Work_7
Situations_Grading_1_NCs	NC's grading	Individual/group work 01
Situations_Group1_Grading_2_NCs _KO	KO	Group Work_8
Small cases		Individual Work or Group Working
Convenience food_1	Several – IFS requirement	Individual Work_1
Ready to eat, chilled smoked fish	Several – IFS requirement	Individual/group work 02
Confectionary_2	Several – IFS requirement	Individual/group work 03

Fruit and vegetable packing, co packer_3	Several – IFS requirement	Individual/group work 04
Case history 1: Dessert production, ready to eat, chilled and frozen	Several – IFS requirement	Individual/group work 05
Case history 2: Cereal/Grain products	Several – IFS requirement	Individual/group work 06
Case history 3: Production, ready to eat, chilled and frozen delicatessen	Several – IFS requirement	Individual/group work 07

7. ASSESSMENT

Degree of participation in Case-studies.

8. PICTURES



FOODQA - Welcome to staff and students.



FOODQA - Welcome to staff and students.

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9. TRAINING EVALUATION

Work Package: WP3 – Training of Academia and Industry

Training Course Title: FOODQA - Fostering Academia Industry Collaboration in Food Safety and Quality

Location of training: Porto - Portugal

Date: 22.01.2018 – 02.02.2018

Grades between 1-5, where 1 is Poor and 5 is Very Good.

	Average
Answer each question with an evaluation from 1-5. AVERAGE =	4,2
What is your opinion of the general organization and facilities of the event? ما رأيك بالتنظيم والتسهيلات التي قدمت في هذه الفعالية	4,8
To which extent did the event live up to your expectations? الى اي مدى توافقت هذه الفعالية مع توقعاتك	4,1
What is your opinion of the presenters/facilitators? ما رأيك بالمقدمين ومديري الحوار	4,7
What is your opinion of the material that was distributed before or during the event? ما رأيك بالمادة التي تم توزيعها قبل واثناء الفعالية	4,1
How do you evaluate the agenda of the event? ما تقييمك لاجندة الفعالية	4,2
How do you evaluate the technical resources used? كيف تقيم المصادر التقنية التي تم استخدامها	4,3
How effective do you think was the methodologies used? ما مدى فاعلية الطرق المستخدمة	4,2
How useful was the event? ما مدى فائدة الفعالية	3,9
How valuable was the event for your professional growth? كيف تقيم الفائدة المهنية من هذه الفعالية	4,3
How satisfied are you from the level of participation to the event proceedings? ما مدى رضاك عن مستوى المشاركين في الفعالية	3,3
Do you feel that the targets of the event have been fulfilled? هل تعتقد بانه تم تحقيق الاهداف المرجوة من الفعالية	4,1

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1. Attachment

Attachment I FOODQA_Slides_HACCP_Training

Attachment II FOODQA_Slides_IFS_Training

