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| PROGRAM: | ERASMUS+ |
| ACTION / SUBPROGRAM: | Key Action 2 / Strategic Partnerships |
| PROJECT TITLE: | “OSH+ for the European Agriculture sector - Stimulating growth in rural areas through capacity building for providers (and beneficiaries) of occupational medicine and OSH services” |
| DOCUMENT: | O 2 - Course 1 Training Curriculum & Accreditation Dossier – Safety Experts |

INTELLECTUAL OUTPUT 2

Course 1 Training Curriculum & Accreditation Dossier

Safety Experts

Training Course Outline

| NR CRT | MODULE NO AND NAME | TIME |
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| 1. | INTRODUCTION TO COURSE OSH FOR AGRICULTURE | 1 h |
| 2. | Module 1 "Economic sub-sectors within agriculture" | 1 h |
| 3. | Module 2 "Professional Risks – Risk Assessment in Agriculture & Work related accidents in Agriculture" | 4 h |
| 4. | Module 3 "Occupational diseases in Agriculture – statistics in the countries of the project" | 3 h |
| 5. | Module 4 "OSH prevention and protection activities for the agriculture sector" | 2 h |
| 6. | Module 5 "Vulnerable groups working in agriculture" | 3 h |
| 7. | INCDPM – Risk Assessment Method | 1 h |
| 8. | Case Study 1 – Greenhouse (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 4 h |
| 9. | Case Study 2 – Sheep slaughter house (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 h |
| 10. | Case Study 3 – Fish farm (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 h |
| 11. | Case Study 4 – Poultry farm – eggs' production (GR) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 4 h |
| 12. | Case Study 5 – Forestry (BG) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 h |
| 13. | Case Study 6 – Farm (IE) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 4 h |
| 14. | Case Study 7 – Poultry farm-broilers (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 h |

Introductory note

As this training course was intended to be a more practical one, focused more on how to do things when it comes to OSH in agriculture field and less on acquiring new knowledge, except for the modules including specific information for the training course (modules 1 to 5), there was included an introductory presentation whose aims were:

- to provide an overview of occupational hazards – how to classify, manage and assess risk,
- to provide means for a better understanding of the basic framework of risk assessment in the EU, and
- to establish occupational hazards relevant to agriculture and the current prevention and protection measures within the agriculture sector.

In addition, the five modules/topics of the training course are followed by the presentation of a risk assessment method – Method of the *The National Research and Development Institute of Occupational Safety (INCDPM) -"Alexandru Darabont"* – put in practice in each of the 7 case studies developed within the project and also part of the training curriculum – forming the support materials for all the five modules.

As such, the theoretical part of the training course counts for a third and the practical part counts for two thirds of the training.

Giving the extent of the practical part in the training course, much of the bellow given details are related to the seven case studies.

Module 1:

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| Name of the Module | Economic sub-sectors within agriculture |
| Aims of the Module | <ul style="list-style-type: none"> – Understand which are the main features for each of the sub-sectors of agriculture; – Understand which are the main operations, tools and equipment used, chemical substances used, and related circumstances (weather, season-related, types of personnel, etc.) for each of the sub-sectors of agriculture; – Understand the hazards and risk factors which are specific for each of the sub-sectors of agriculture; |

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| Total number of training hours | 0.5 |
| Number of hours allocated for the face-to-face training* | 0.5 |
| Number of hours allocated for the e-learning / individual study | 1 |

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| Type of Materials used | Manual | Yes |
| | Presentation | Yes |
| | Individual Exercise/s | Yes |
| | Case study | Yes |
| | Other type of work | Data on Legislation & Regulations in force Work related accidents – European statistics |

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| Overall Responsible | Romtens (Romania) |
| Experts responsible for producing training materials | Marian BURA Aurica-Breica BOROZAN Octavian Sorin VOIA Eliza SIMIZ Theodor HARATAU Monica TOAJE |
| Responsible experts for delivering the face-to-face training – C4 | Theodor HARATAU Monica TOAJE |

Module 2:

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| Name of the Module | Professional Risks - Risk Assessment in Agriculture & Work related accidents in Agriculture |
| Aims of the Module | <ul style="list-style-type: none"> – To provide an overview of occupational hazards including how to classify, manage and assess risk. |



- To establish occupational hazards relevant to agriculture and the current prevention and protection measures within the agriculture sector.

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| Total number of training hours | 4 |
| Number of hours allocated for the face-to-face training | 2 |
| Number of hours allocated for the e-learning / individual study | 2 |

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|------------------------|-----------------------|---|
| Type of Materials used | Manual | Yes |
| | Presentation | Yes |
| | Individual Exercise/s | No |
| | Case study | Yes |
| | Other type of work | Presentation of additional resources (movies, tutorial, statistics) |

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| Overall Responsible | WRC (Ireland) |
| Experts responsible for producing training materials | Aoife OSBORNE Richard WYNNE |
| Responsible experts for delivering the face-to-face training – C4 | Monica Toaje |

Module 3:

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| Name of the Module | Occupational diseases in Agriculture – statistics in the countries of the project |
| Aims of the Module | <ul style="list-style-type: none"> – The trainee should be able to understand the concepts of occupational diseases, work-related diseases – The trainee should be aware of the most often found occupational diseases in various economic subsectors of agriculture – The trainee should be able to understand and analyze available statistical data on occupational diseases – The trainee should be able to use the National Occupational Diseases List. |

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| Total number of training hours | 3 |
| Number of hours allocated for the face-to-face training | 1.5 |
| Number of hours allocated for the e-learning / individual study | 1.5 |

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| Type of | Manual | Yes |
| | Presentation | Yes |

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| | Individual Exercise/s | Yes |
| | Case study | Yes |
| | Other type of work | Presentation of additional resources (movies, tutorials, statistics) |

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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Elena-Ana PAUNCU |
| Responsible experts for delivering the face-to-face training – C4 | Elena-Ana PAUNCU |

Module 4:

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| Name of the Module | OSH prevention and protection activities for the agriculture sector |
| Aims of the Module | <ul style="list-style-type: none"> – to explain the strategic, technical, and organizational aspects to effective prevention measures, so that the trainee is able to understand the context with which corrective actions are allocated within the field of discussion, to provide some practical examples, that could be investigated further as potential solutions to live issues within their organization |

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| Total number of training hours | 2 |
| Number of hours allocated for the face-to-face training | 1 |
| Number of hours allocated for the e-learning / individual study | 1 |

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| Type of Materials used | Manual | Yes |
| | Presentation | Yes |
| | Individual Exercise/s | Yes |
| | Case study | Yes |
| | Other type of work | Presentation of additional resources (Legislation & Regulations in force) Standard “ISO 45001:2018/Occupational health and safety management systems” |

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| Overall Responsible | FBCZR (Bulgaria) |
| Experts responsible for producing training materials | Monica Toaje Ljupcho Kochovski David Helyer |
| Responsible experts for delivering the face-to-face training – C4 | Ljupcho Kochovski David Helyer |

Module 5:

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| Name of the Module | Vulnerable groups working in agriculture |
| Aims of the Module | <ul style="list-style-type: none"> – Define vulnerability in an occupational health setting – Identify what groups are considered to have special risk in agricultural occupational settings – Identify special health risks particular to each vulnerable group – Identify specific prevention methods for each vulnerable group discussed in the module – Familiarize themselves with vulnerability assessment tools |

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| Total number of training hours | 3 |
| Number of hours allocated for the face-to-face training | 1.5 |
| Number of hours allocated for the e-learning / individual study | 1.5 |

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| Type of Materials used | Manual | Yes |
| | Presentation | Yes |
| | Individual Exercise/s | Yes |
| | Case study | Yes |
| | Other type of work | Work in Agriculture – Workplace Health Promotion perspective |

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| Overall Responsible | Prolepsis (Greece) |
| Experts responsible for producing training materials | Anastasia Pandazopoulou Fotis Tsihlias Koutelidas Ioannis |
| Responsible experts for delivering the face-to-face training – C4 | Theodor HARATAU |

Case Study 1

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| Topic | Greenhouses |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation – Exercise 3: Design of preventive measures |
| Total number of training hours | 4 |
| Number of hours allocated for the face-to-face training | 2 |

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| Number of hours allocated for the e-learning / individual study | 2 |
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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Sorin Ionut |
| Responsible experts for delivering the face-to-face training – C4 | Sorin Ionut |

Case Study 2

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| Topic | Sheep slaughter house |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation – Exercise 3: Design of preventive measures |

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| Total number of training hours | 5 |
| Number of hours allocated for the face-to-face training | 2.5 |
| Number of hours allocated for the e-learning / individual study | 2.5 |

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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Elena-Ana Pauncu Sorin Ionut |
| Responsible experts for delivering the face-to-face training – C4 | Elena-Ana Pauncu Sorin Ionut |

Case Study 3

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| Topic | Fish farm |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation – Exercise 3: Design of preventive measures |

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| Total number of training hours | 5 |
| Number of hours allocated for the face-to-face training | 2.5 |
| Number of hours allocated for the e-learning / individual study | 2.5 |

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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Sorin Ionut |
| Responsible experts for delivering the face-to-face training – C4 | Sorin Ionut |

Case Study 4

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| Topic | Poultry farm – eggs' production |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation – Exercise 3: Design of preventive measures |

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| Total number of training hours | 4 |
| Number of hours allocated for the face-to-face training | 2 |
| Number of hours allocated for the e-learning / individual study | 2 |

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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Sorin Ionut |
| Responsible experts for delivering the face-to-face training – C4 | Sorin Ionut |

Case Study 5

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| Topic | Forestry |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation – Exercise 3: Design of preventive measures |

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| Total number of training hours | 5 |
| Number of hours allocated for the face-to-face training | 2.5 |
| Number of hours allocated for the e-learning / individual study | 2.5 |

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| Overall Responsible | FBCZR (Bulgaria) |
| Experts responsible for producing training materials | Zlatka Paunova |
| Responsible experts for delivering the face-to-face training – C4 | Zlatka Paunova |

Case Study 6

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| Topic | Farm |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation |

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| | – Exercise 3: Design of preventive measures |
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| Total number of training hours | 4 |
| Number of hours allocated for the face-to-face training | 2 |
| Number of hours allocated for the e-learning / individual study | 2 |

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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Sorin Ionut |
| Responsible experts for delivering the face-to-face training – C4 | Sorin Ionut |

Case Study 7

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| Topic | Poultry farm-broilers |
| Exercises | <ul style="list-style-type: none"> – Exercise 1: Hazard identification – Exercise 2: Risk calculation – Exercise 3: Design of preventive measures |

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| Total number of training hours | 5 |
| Number of hours allocated for the face-to-face training | 2.5 |
| Number of hours allocated for the e-learning / individual study | 2.5 |

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| Overall Responsible | UMFVBT (Romania) |
| Experts responsible for producing training materials | Sorin Ionut |
| Responsible experts for delivering the face-to-face training – C4 | Sorin Ionut |

Theoretical part – MODULES

| No | Module / Structure of the module | Total no of hours | Hours (e-learning) | Hours (F2F) | Manual | PPT pres. | Individual Exercise/s | Case Study | Other type of work | Resp. Partner | Experts responsible for producing training materials: Module, PPT, exercises | Responsible experts for delivering the face-to-face training in Bucharest, in JULY 2018 |
|----|--|-------------------|--------------------|-------------|--------|-----------|-----------------------|------------|--|-------------------|--|---|
| 1 | INTRODUCTION TO COURSE OSH FOR AGRICULTURE | 1 | 0,5 | 0,5 | No | Yes | No | No | Methodology and techniques used | Romtens (Romania) | Theodor HARATAU Monica Toaje | Theodor HARATAU Monica Toaje |
| 2 | Module 1 "Economic sub-sectors within agriculture" | 1 | 0,5 | 0,5 | Yes | Yes | Yes | Yes | Data on Legislation & Regulations in force Work related accidents – European statistics | Romtens (Romania) | Marian BURA Aurica-Breica BOROZAN Octavian Sorin VOIA Eliza SIMIZ Theodor HARATAU Monica TOAJE | Theodor HARATAU Monica TOAJE |
| 3 | Module 2 "Professional Risks - Risk Assessment in Agriculture & Work related accidents in Agriculture" | 4 | 2 | 2 | Yes | Yes | Yes | Yes | Presentation of additional resources (movies, tutorials, statistics) | WRC (Ireland) | Aoife OSBORNE Richard WYNNE | Monica Toaje |
| 4 | Module 3 "Occupational diseases in Agriculture – statistics in the countries of the project" | 3 | 1,5 | 1,5 | Yes | Yes | No | Yes | Presentation of additional resources (movies, tutorials, statistics) | UMFVBT (Romania) | Elena-Ana PAUNCU | Elena-Ana PAUNCU |

| No | Module / Structure of the module | Total no of hours | Hours (e-learning) | Hours (F2F) | Manual | PPT pres. | Individual Exercise/s | Case Study | Other type of work | Resp. Partner | Experts responsible for producing training materials: Module, PPT, exercises | Responsible experts for delivering the face-to-face training in Bucharest, in JULY 2018 |
|----|--|-------------------|--------------------|-------------|--------|-----------|-----------------------|------------|---|--------------------|--|---|
| 5 | Module 4 "OSH prevention and protection activities for the agriculture sector" | 2 | 1 | 1 | Yes | Yes | Yes | Yes | Presentation of additional resources (Legislation & Regulations in force) Standard "ISO 45001:2018/Occupational health and safety management systems" | FBCZR (Bulgaria) | Monica Toaje Ljupcho Kochovski David Helyer | Ljupcho Kochovski David Helyer |
| 6 | Module 5 "Vulnerable groups working in agriculture" | 3 | 1,5 | 1,5 | Yes | Yes | Yes | Yes | Work in Agriculture – Workplace Health Promotion perspective | Prolepsis (Greece) | Anastasia PANDAZOPOULOU Fotis Tsihlias Koutelidas Ioannis | Theodor HARATAU |
| 7 | INCDPM – Risk Assessment Method | 1 | 0,5 | 0,5 | No | Yes | No | No | 3 Instruments: GRAVITY AND PROBABILITY SCALE RISK/SECURITY RANGE SCALE RISK EVALUATION SCALE | UMFVBT (Romania) | Monica Toaje Sorin Ionut | Monica Toaje Sorin Ionut |

Practical part - CASE STUDIES

| No. | Topic | Total no of hours | Hours (e-learning) | Hours (F2F) | Resp. Partner | Experts responsible for producing training materials: Module, PPT, exercises | Responsible experts for delivering the face-to-face training in Bucharest, in JULY 2018 |
|-----|--|-------------------|--------------------|-------------|--------------------|--|---|
| 1 | Case Study 1 – Greenhouse (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 4 | 2 | 2 | UMFVBT (Romania) | Sorin Ionut | Sorin Ionut |
| 2 | Case Study 2 – Sheep slaughter house (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 | 2,5 | 2,5 | UMFVBT (Romania) | Elena-Ana Pauncu Sorin Ionut | Elena-Ana Pauncu Sorin Ionut |
| 3 | Case Study 3 – Fish farm (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 | 2,5 | 2,5 | UMFVBT (Romania) | Sorin Ionut | Sorin Ionut |
| 4 | Case Study 4 – Poultry farm – eggs' production (GR) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 4 | 2 | 2 | PROLEPSIS (Greece) | Pania Karnaki Dina Zota | Sorin Ionut |
| 5 | Case Study 5 – Forestry (BG) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 | 2,5 | 2,5 | FBCZR (Bulgaria) | Zlatka Paunova | Zlatka Paunova |
| 6 | Case Study 6 – Farm (IE) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 4 | 2 | 2 | WRC (Ireland) | Richard Wynne | Sorin Ionut |
| 7 | Case Study 7 – Poultry farm-broilers (RO) Exercise 1: Hazard identification Exercise 2: Risk calculation Exercise 3: Design of preventive measures | 5 | 2,5 | 2,5 | ROMTENS (Romania) | Theodor Haratau | Theodor Haratau |