

Workshop on the Integrated Risk Assessment Method/Easy Tools

Development of risk assessment forms

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1

A legal reason for risk assessment

Recognizing that there was a need for planning inspection work in the Member States, the European Parliament and the Council adopted several legislation:

- Recommendation 2001/331/EC providing for minimum criteria for environmental inspections in the Member States (RMCEI)
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (SEVESO)
- Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control) (IED)

2

Plan vs programme

Inspection plan:

It is more abstract document comparing to a programme.
(IED Article 23(2) and 23(3))

Programme: It is part of the inspection plan and tells the inspector when, where and what he or she should be doing. In practice this is often a table with the names of the installations, the name(s) of the inspector(s), the type of inspection, the date or time frame (week or month) the type and additional information needed to execute inspections. It is a kind of schedule for inspector work.

It is more concrete document comparing to a plan.

3

What are risk criteria?

Risk criteria are criteria with which we evaluate actual and potential impacts of the installation on environment.

We differentiate between:

- Impact Criteria (IC) and
- Operator Performance Criteria (OPC)

Beside risk assessment method (like IRAM) choosing the right set of risk criteria is essential for achieving good risk assessment results.

4

Obligatory risk criteria

- **RMCEI:**

- (a) environmental risks

- **SEVESO:**

- (a) the potential impacts on human health and the environment
 - (b) the record of compliance with the requirements of this Directive.

5

Obligatory risk criteria

- **IED:**

- (a) levels and types of emissions (water, air, soil, noise,...)
 - (b) the sensitivity of the local environment
 - (c) the risk of accidents
 - (d) the record of compliance with permit conditions
 - (e) the participation of the operator in the Union eco-management and audit scheme (EMAS)

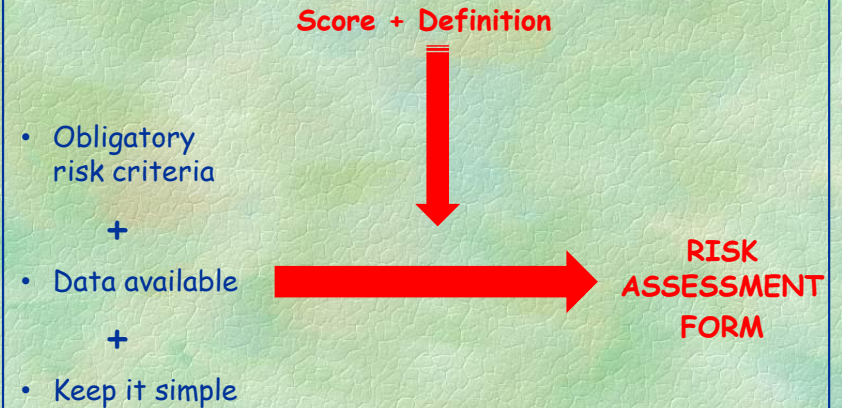
6

Data for risk assesment (input)

- List of installations (→ plan)
- Resources (human resources)
- Previous inspections (date of lasts visit, emissions, compliance with permit, EMAS, etc.)
- Different databases (sensitivity of area, amount of waste, etc.)

7

What risk criteria to choose?



8

Choosing a list of risk criteria

We would like to create a risk assessment form for **waste water inspection for non - IED installation** (RMCEI + SEVESO).

Impact Criteria (IC):	Operator Performance Criteria (OPC)
Type and kind of installation	Compliance SEVESO
Impacts on human health or the environment	Attitude of the operator
Annual releases to water [kg/year]	Environmental management system IED
Emissions to water	
Releases to land not important	
Off-site transfer of waste	
Risk of accidents IED	
Noise	
Releases to air not important	

9

Choosing a list of risk criteria

We would like to have as simple form as possible.

Impact Criteria (IC):	Operator Performance Criteria (OPC)
Type and kind of installation	Compliance
Impacts on human health or the environment	Attitude of the operator
Annual releases to water [kg/year]	
Emissions to water	
Off-site transfer of waste	
Noise	

10

Choosing a list of risk criteria

Final list of risk criteria:

Impact Criteria (IC):	Operator Performance Criteria (OPC)
Type and kind of installation	Compliance
Impacts on human health or the environment	Attitude of the operator
Annual releases to water [kg/year]	
Off-site transfer of waste	

11

Risk assessment forms and IRAM


1. We register as coordinator.

Logon

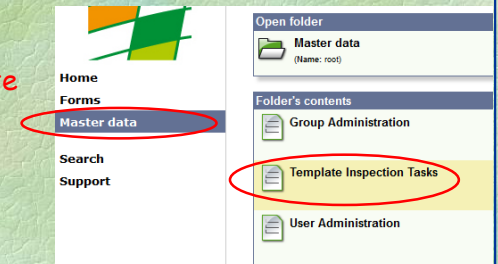
Please enter your login data consisting of user-id and password.

user id:

password:

 start

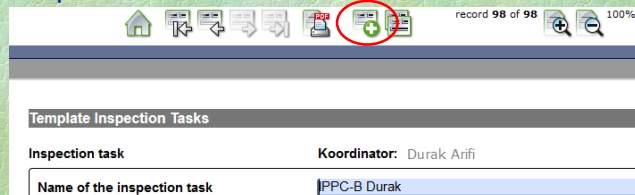
2. We choose **Master data** and then **Template Inspection Tasks**.



12

Risk assessment forms and IRAM

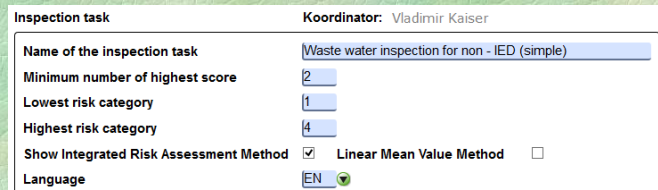
3. Open New record.



The screenshot shows a software interface with a toolbar at the top. The 'New record' button, represented by a green plus icon, is circled in red. Below the toolbar, there is a section titled 'Template Inspection Tasks'. Under this section, there is a form with the following fields:

- Inspection task**: Koordinator: Durak Anfi
- Name of the inspection task**: IPPC-B Durak

4. Import data about Inspection task.



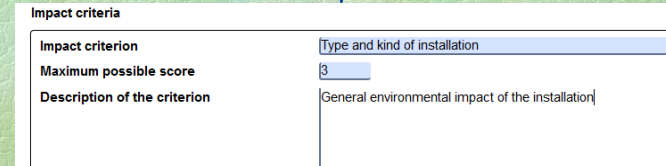
The screenshot shows a form titled 'Inspection task' with the coordinator 'Vladimir Kaiser'. The form contains the following fields:

- Name of the inspection task**: Waste water inspection for non - IED (simple)
- Minimum number of highest score**: 2
- Lowest risk category**: 1
- Highest risk category**: 4
- Show Integrated Risk Assessment Method**: ☒ Linear Mean Value Method ☐
- Language**: EN

13

Risk assessment forms and IRAM

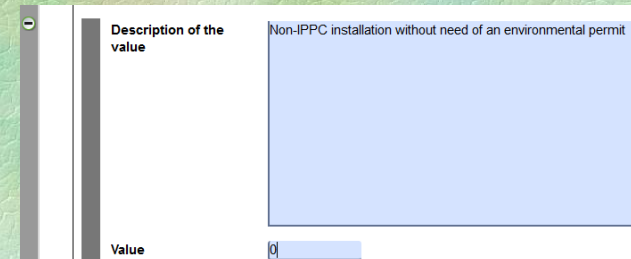
5. Ad data about first impact criterion.



The screenshot shows a form titled 'Impact criteria' with the following fields:

- Impact criterion**: Type and kind of installation
- Maximum possible score**: 3
- Description of the criterion**: General environmental impact of the installation

6. Ad first value (score) and its description.



The screenshot shows a form titled 'Description of the value' with the following fields:

- Description of the value**: Non-IPPC installation without need of an environmental permit
- Value**: 0

14

Risk assessment forms and IRAM

7. Open a field for next value (score) and its description.

Value [0]

Shift of score (weight) [0]

Inspection weight [1]

8. Add all values (scores) and descriptions for the first impact criterion.

15

Risk assessment forms and IRAM

7. Open a field for next impact criterion and add all values (scores) and descriptions.

Value []

Shift of score (weight) [0]

Inspection weight [1]

Operator performance criteria

Operator performance criterion []

16

Risk assessment forms and IRAM

10. After adding all impact criteria start with first operator performance criterion and ad scores (-1, 0, 1) and definitions.

Operator performance criteria	
Operator performance criterion	Compliance
Description of the criterion	Has to be reviewed after the next inspection

9. Add new operator performance criterion.

Value	
Weight of criteria	1
Risk category	
Category	Frequency

17

Risk assessment forms and IRAM

10. Define risk categories

Category	Frequency	Information
1	60	
2	36	
3	24	
4	12	

18

Risk assessment forms and IRAM

11. Add information about inspection category.

Information about inspection category

Inspection category	Information
A	Basic Inspection
B	Basic inspection with one or two key aspects
C	Inspection with broad main focus
D	Fully integrated inspection

19

Risk assessment forms and IRAM

12. Press **Save changes** icon (!!!!!).



20

THE END