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SAFESENSE+: Occupational Health and Safety in Green Work Environments with a Sensitive Approach to Climate Change

Agreement Number 2021-1-BG01-KA220-VET-000028016

PR1 Curriculum and Open Resource Toolbox

LOT-CONSULT





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Module 2. Risk management and prevention measures, practices and models of work-related diseases in existing and emerging sectors using hazardous substances and chemicals including explosive, environmentally hazardous, toxic, carcinogenic, etc.

Aim:

The module aims to equip the trainers and the managers with the skills and knowledge, necessary to identify risks and mitigate them using good practices and appropriate prevention measures in their company.



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LEARNING OUTCOMES

Upon completion of this Unit, the VET educator will be able to...	Knowledge	Skills	Responsibility & Autonomy
	K1. Identify risks which could lead to work-related diseases	S1. Develop good practice models to tackle the occupational risks related with the use of chemicals and hazardous substances	R1. Demonstrate awareness of work-related diseases in existing and emerging sectors
	K2. Classify hazardous substances and chemicals used	S2. Make use of appropriate prevention measures	R2. Evaluate occupational risks at the usage of hazardous substances and chemicals
	K3. Explain risk management in the context of work-related diseases using hazardous substances and chemicals	S3. Organise effective risk management	R3. Monitor the work and learning processes with regards to effective management of the risk assessment
			R4 Instruct trainees on methods and measures for prevention of work-related diseases



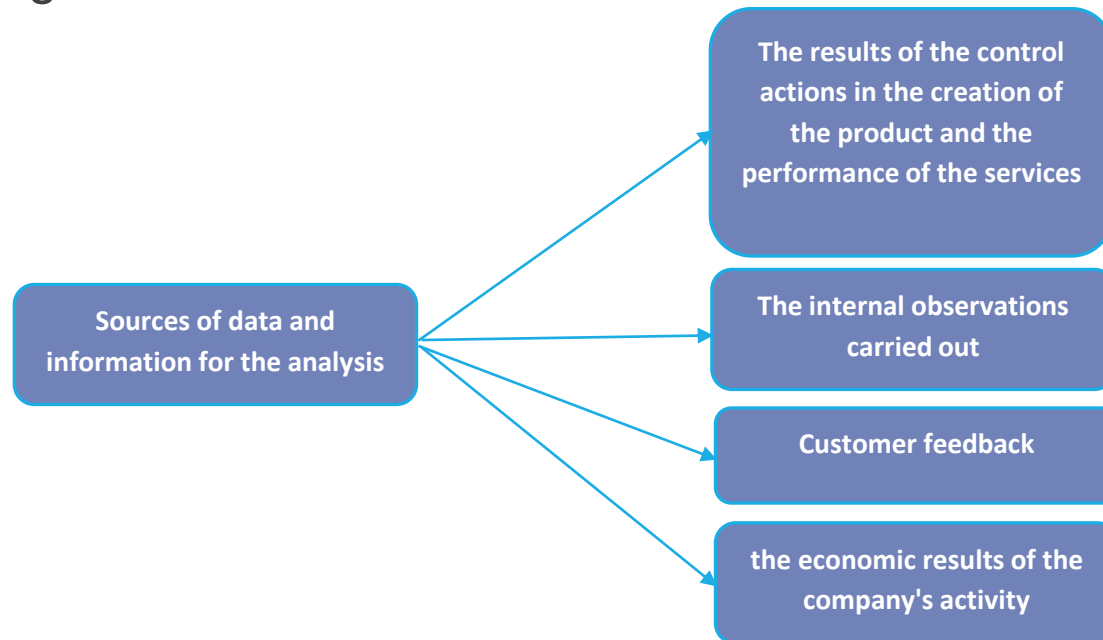
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Tool 1: Management and control Scheme of OSH activities

a) OSH management activities





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The analysis summarizes information about:

To what extent the agreed requirements for the created products (performed services) are complied with

The characteristics and trends in the development (improvement) of the created products (performed services)

How strictly the established processes are implemented in the Company's activities

The characteristics and trends in the development (improvement) of the company's business processes

The level of customer satisfaction

The work of suppliers and subcontractors and their relationship with the company

The adoption of appropriate corrective measures to improve the management system

- Examples of corrective actions resulting from an analysis

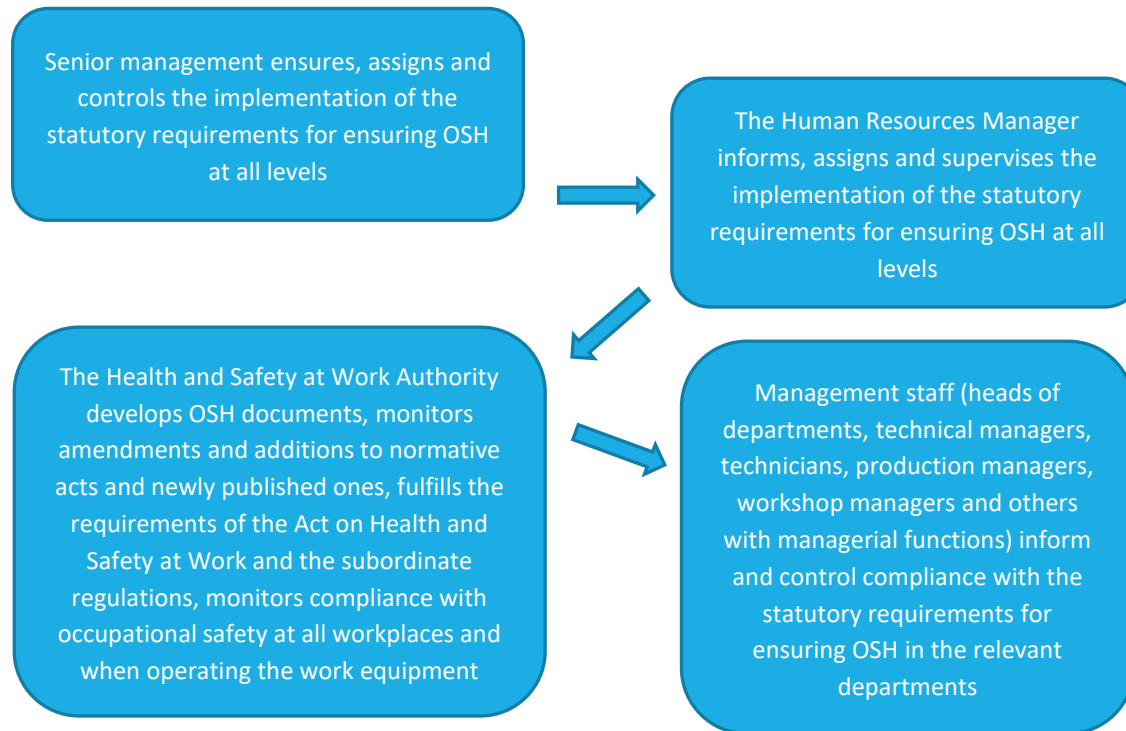


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- **b) Management and control Scheme of OSH activities**





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- Main tools used in the company to achieve the OHS objectives
 - Core Elements of a Safety Management System Based on ANSI Z10, ISO 45001, and OSHA Guidelines



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Tool 2: Managing the risks of hazardous chemicals

- a) The physical state of chemicals
- b) The classification of chemical hazards
- c) Reading an SDS (safety data sheet)
 - Section 1: identification of the chemical / mixture and of the organization
 - Section 2: hazard identification
 - Section 3: composition / information in ingredients
 - Section 4: first aid measures
 - Section 5: firefighting measures
 - Section 6: accidental release measures
 - Section 7: handling and storage
 - Section 8: exposure controls/personal protection
 - Section 9: physical and chemical properties



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- Section 10: stability and reactivity
 - Section 11: toxicological information
 - Section 12: ecological information
 - Section 13: disposal considerations
 - Section 14: transport information
 - Section 15: regulatory information
 - Section 16: other information
 - d) Control measures for hazardous chemicals (using the hierarchy of control)
 - Eliminating the risk
 - Substituting the system of work, substance or plant
 - Engineering controls
 - Administrative controls
 - e) Revising and updating



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Tool 3: Managing biological hazards

- a) Identifying biological hazards
- b) Risk assessment and controls
 - Hierarchy of control
 - Engineering controls
 - Administrative controls
 - Personal protective equipment (PPE)