

COURSE SYLLABUS

Vocational School

Course Code	Course Title		Credits (T–P–L)	ECTS
ISG-217	Risk Analysis and Assessment		(1-1-2)	6
Prerequisites	None			
Language of Instruction	Turkish	Mode of Delivery	Face-to-face	
Course Type and Level	Compulsory / Fall Semester / Associate Degree			
Instructor		Class Hours	Office Hours	İletişim
Lecturer Ayşe Tazegül		Monday 10:15–11:45	Tuesday–Thursday 10:00–16:00	ayseercan@cag.edu.tr
Course Coordinator	Lecturer Ayşe Tazegül			

Learning Outcomes

Course Learning Outcomes	Upon successful completion of this course, the student will be able to:		Relations	
			Program Outcomes	Contribution
	1	Define basic concepts such as risk, hazard, probability, severity, and risk matrix.	1,2	5,5
	2	Recall the risk assessment obligations in Law No. 6331 on Occupational Health and Safety and related regulations.	1	5
	3	Explain the stages of the risk assessment process (hazard identification, risk analysis, risk control).	1,2	5,5
	4	Compare the logic of different risk assessment methods.	1,2	5,5
	5	Interpret the importance of workplace risk assessment within the OHS management system.	1,2	5,5
	6	Calculate probability and severity values using the risk matrix.	1,2,4	5,5,4
	7	Fill out a risk assessment form in accordance with legislation.	1,2	5,5
	8	Discuss the strengths and weaknesses of different risk assessment methods.	1,2	5,5

Course Objective and Description	This course covers the process of risk analysis and assessment, one of the fundamental components of occupational health and safety management systems. Students gain theoretical knowledge and practical skills in hazard identification, risk determination, probability and severity calculations, and risk prioritization. Existing risk assessment methods (L-type matrix, Fine–Kinney, HAZOP, What-if, etc.) are examined, and their applications in different sectors are explained. The course focuses on the hierarchy of risk control, preventive and protective measures in line with legislation, emergency planning, and continuous improvement approaches. Additionally, through sample workplace applications and case studies, students learn to prepare risk assessment reports, interpret results, and develop decision-making processes to enhance OHS performance. By the end of the course, students are expected to achieve the knowledge and skills required to conduct effective workplace risk analyses, prioritize preventive measures, and prepare reports in compliance with legislation.
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Course Contents: (Weekly Course Plan)

Week	Topic	Preparation	Teaching Method and Techniques
1	Introduction to the course, objectives, and scope	Review course syllabus, examine basic OHS legislation	Lecture, Discussion
2	Basic concepts: Hazard, Risk, Probability, Severity	Review OHS terminology	Lecture, Brainstorming
3	Risk assessment in Law No. 6331 and related regulations	Read Law No. 6331	Lecture, Q&A
4	Classification of risks: Physical, chemical, biological, ergonomic, psychosocial	Observe workplace, mall, park, living areas, etc.	Brainstorming, Case Analysis
5	Stages of the risk assessment process	Examine risk examples from different sectors	Lecture, Group Work
6	Seminar (Speaker Invitation)	Examining OHS risk assessment examples	Application, Case study
7	Fine-Kinney method and application examples	Fill out sample form	Problem Solving, Practical Work
8	Midterm Exam		
9	Midterm Exam		
10	Technical Trip	Conducting research on OHS practices in hospitals	Application, Case Study
11	Risk control hierarchy and preventive measures	List control methods	Lecture, Discussion
12	Current situation assessment and field observation (workshop/workplace examples)	Observe workplaces, malls, parks, living areas, etc., identify hazards and risks	Fieldwork, Practice
13	Techniques for preparing risk assessment reports	Review sample reports	Lecture, Q&A
14	Risk assessment and report preparation	Review sample reports	Group Work, Practical Study, Case Study
15	Risk Assessment Sample Report Preparation	Examining risk assessment techniques and field applications	Practical work, Lecture, Problem solving
16	General review and semester evaluation	Review risk analysis and assessment methods and legislation	Discussion, Q&A
17	Final Exam		
18	Final Exam		

Course Resources

Course Book	Akyıldız, F. (2019, 3rd Edition). Risk Management and Risk Assessment. Nobel Publishing.
Recommended Resources	General Directorate of Occupational Health and Safety (MoFLSS). Risk Assessment Guide.

Assessment and Evaluation

Activity	Number	Contribution (%)	Notes
Midterm Exam	1	20	Written exam

Participation / In-class Activities	1	10	Active participation in discussions, group work, and in-class activities
Assignment	1	10	Group work, submission of risk assessment report
Final Exam	1	60	Comprehensive written exam
AKTS Tablosu			
Activity	Number	Hours	Total
Class Duration	14	2	28
Out-of-Class Study	14	6	84
Assignments	1	8	10
Presentation			
Project			
Midterm Exam (Exam + Preparation)	1	26	26
Final Exam (Exam + Preparation)	1	32	32
Total			180
Total / 30			180 / 30 = 6
ECTS Credit			6

