

Maritime Causality Investigation

Basic Course Specification					
Course Title	Course Code	Program on which the course is given			
Maritime Causality Investigation	SE 420	Bachelor			
Academic Year	Specialization (units of study)	Pre-Requisites			
2020-2021	Theoretical (1 hrs/week) Application (3 hrs/week) Credit 2 Cr	None			
Overall Course Objectives					
<p>On completion of this course, students should be familiar with: How to identify the steps of making marine safety investigation and how to access the root cause. The various methods & models of the safety investigation. The difference between the types of marine causality. Identify the steps of writing the marine safety investigation report</p>					
Course Learning Outcomes. By successful completion of the course each student will be able to:					
Topic	Linking to PLOs	Midterm Assessment	12 th Week Assessment	Class Activities	Final Exam
1. Define and understand marine causality investigation. Demonstrate and explain the basic properties about the human factors.	a	√	√	√	√
2. Describe the characteristics of marine safety investigator.	d	√			√
3. Describe The steps of making marine safety investigation	a			√	√
4. Describe and understand the available models to make marine safety investigation	a	√			√
5. Describe the marine safety investigation report.	a		√		√
Course Content					
Lec./ Week #	Topic	Hrs. #	Theoretical	Application	
1	Why is marine investigation needed?	4	1	3	
2	Marine causality investigation code study.	4	1	3	
3	The human factor role in the marine accident.	4	1	3	
4	The marine investigator role in the marine investigation.	4	1	3	
5	How does the marine investigator make the marine safety investigation?	4	1	3	
6	The steps of making marine safety investigation	4	1	3	

7	7 th Week Exam	4	1	3
8	The steps of making marine safety investigation	4	1	3
9	The importance of the investigation models in the marine safety investigation	4	1	3
10	How to make marine safety investigation using shell model?	4	1	3
11	How to make marine safety investigation using reason model?	4	1	3
12	Assessment	4	1	3
13	How to make marine safety investigation using shell-reason model	4	1	3
14	How to make marine safety investigation using shell-reason model?	4	1	3
15	How to write the marine safety investigation report?	4	1	3
16	Final Assessment			
Total		60	15	45
Teaching & Learning Methods		Facilities Required for Teaching & Learning Methods		
Explaining and demonstrating the lesson contents – Delivery of experience - discussing and asking questions to interact with students – solving examples		White Board& data show		
Students Assessment Methods				
Assessment Schedule				
Assessment#1		Week 7		
Assessment#2		Week 12		
Assessment#3		Week 16		
Grading Method				
7th Week Assessment	Written exam		30%	
12 th week Assessment	Written exam		20%	
Class Activities	Participation – Quiz		10%	
Final Exam	Written exam		40%	
Total			100 %	
Assessment criteria shall meet the standards of the STCW 78 convention "as amended"; and in the light of the related IMO model courses.				
Staff Requirements				
Master FG/Ph.D.				
List of References				
Course Notes		Essential Books		
Lecturer notes and sheets		Marine causality investigation code		

Recommended Books	Periodicals and Publications
None	None
Others (websites, e-books...etc)	
None	

Accreditation Bodies
<ul style="list-style-type: none"> *Egyptian Authority for Maritime Safety (EAMS) *European Commission (EC) *ISO (9001 – 2015) DNV-GL* *Central Evaluation and Accreditation Agency Hanover, Germany (ZEVA) *Ministry of Education (KSA) Ministry of Higher Education (Greece)* *Ministry of Higher Education (Oman) *Commission for Academic Accreditation (CAA), Ministry of higher Education (UAE) *University of Plymouth, United Kingdom (dual degree)

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