

INCIDENT INVESTIGATION & ROOT CAUSE ANALYSIS

INTEGRATING THE JUST CULTURE MODEL

Course aim and objectives: This course provides participants with knowledge for effective handling of marine incidents and follow up by correcting the cause(s) of such incidents. Course participants will also have the opportunity to go over various methodologies for tracing and identifying the causes of an incident investigation as well as the process for carrying out an incident investigation with reference to maritime industry best practice guidance and IMO Model Course 3.11. The course also **integrates the Just Culture framework**, enabling participants to distinguish between blameless human error, negligent acts, reckless violations, and system-induced conditions. This ensures investigations are conducted fairly, objectively, and with the goal of system improvement rather than assigning unjust blame. By the end of the course, participants will be able to conduct incident investigations using structured methodologies and **Just Culture principles**, identify immediate causes, underlying contributing factors, systemic weaknesses, and the human factors involved in so many marine incidents. Distinguish between different types of unsafe behaviors **using the Just Culture decision model**. Apply impartial, evidence-based analysis that supports accurate root cause identification. Develop effective corrective and preventive actions addressing both behavioral and system-based deficiencies. Encourage a reporting culture that promote safety. Use investigation findings to strengthen the Safety Management System (SMS), reduce future losses, and improve operational safety. The course ensures the training goes beyond procedural steps, giving personnel the strategic, leadership, and organizational insight needed **to implement Just Culture** and systemic improvement effectively. The course makes reference as to how the **Just Culture** should be considered & applied when investigating causal factors & root causes in an impartial and objective manner.

Course main elements:

- Scope and principles of the incident investigation process
- **Introduction to Just Culture and its role in fair & objective investigations**
- Methodologies for proactive management of risks and mitigation of losses
- Proactive hazard identification supported by a **Just Culture** reporting environment
- Step by step analysis and practice of the incident investigation process
- Behaviour analysis using the **Just Culture decision model**
- Factors contributing to incidents
- Incident investigation process and analysis of causes
- Root cause analysis and action(s) to eliminate causes
- **Determining root causes aligned with Just Culture categories**
- Lessons learnt, proactive and reactive risk controls
- **Using lessons learnt to reinforce Just Culture & Continual Improvement**
- Immediate, medium, and long-term corrective actions following incident investigations
- **Behaviour-based actions consistent with Just Culture accountability**
- SMS updates regarding fatigue management, training, supervision, procedural review
- Behaviour-based actions consistent with **Just Culture accountability**
- **Analysis using RCA tools and the Just Culture decision model**
- Practical exercises and final examination



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Course participation: The course is open to shipping company managers, superintendents, designated persons, masters, and senior shipboard team members involved and affected by the process.

Course duration: 2 days This training is provided with real time instruction through teams platform in two pre-scheduled interactive learning sessions

Course Schedule: 10:00 – 17:00 hours daily

Registration: Please complete the course registration form or contact Mrs. Angie Panagiotarakou email: training@dynamarine.com Tel: (+30) 210 894 1667

Fees: Euros 350 per day per participant. Discount of 10% is offered to individual participants registering to this course. Group discounts of 15% are also arranged for companies registering 3+ participants

Instructor: Capt. Titos Giannakakis – Senior Maritime Trainer & Marine Consultant – DYNAMARINE Academy