



CMC, Safety Division Ground Mishap Investigation Course

Background: The Marine Corps Ground Mishap Investigation course (GMIC) was developed in 2011 by CMC, SD's safety training team and Investigations Branch. This course is designed to aid Battalion/Squadron level safety officers or safety managers as well as civilian safety & occupational health (SOH) practitioners in closing a skills gap of causal factor analysis techniques. For all leaders, the goal is to enhance risk management strategies through effective mishap hazard analysis and increased hazard reporting. This course provides 40 hours of mishap investigation

and root cause analysis techniques beyond the introductory class offered in the Ground Safety for Marines (GSM) course. The CMC(SD) course is the only approved equivalent to the CIN# A-493-0078 as it exceeds the requirements set forth in DoDI 6055.01, DoDI 6055.07, SECNAVINST 5100.10K, OPNAVINST 5100.23H, OPNAVINST 1500.75D, NAVMC 1553.2, MCO 5100.29C, MCO 5100.8 and OPNAVINST 5102.1D/MCO P5102.1B.

This course incorporates the use of "real-world" mishap case studies that challenges each attendee's critical thinking and problem solving skills in an interactive and experiential learning environment for the adult learner.

The primary learning objectives focus on causal factor analysis utilizing a process called root cause analysis mapping with direct application of the DoD Human Factors Analysis and Classification System v7.0 (DoD HFACS). Other course objectives include protection of safety information, mishap and hazard report (HAZREP) requirements, interviewing techniques, development of effective corrective actions, safety investigation report (SIREP) writing with a brief overview of the DON Safety Investigation Board (SIB) process.

Upon completion of this course, each member will have the basic knowledge and skills to effectively investigate events ranging from the high potential near miss to a catastrophic mishap. Additionally, this course authorizes personnel to participate as a member of a Marine Corps SIB in accordance with OPNAVINST 5102.1D/MCO P5102.1B.

HOST COMMAND REQUIREMENTS

Host/requesting command must fulfill:

Computer / IT / Media Support: Instructor's station requires projector and screen with the following:

- Capable of supporting the instructor's (Government owned, non-NMCI) laptop with HDMI, DVI, or VGA.
- Audio system for case study videos.

Note: Instructors have CAC access yet only have navy.mil or mail.mil accounts. Instructor laptops do NOT have CD/DVD capability.

Classroom Facility / Attendee Support:

- Classroom with *movable tables* to comfortably support *six groups* of up to *five personnel per group*.
- To provide the best learning environment and instructor-student interaction, the preferred class size is 24 personnel, but we may accommodate 30 personnel if the classroom has the appropriate floor and wall space.
- Each group requires 10 feet (20 sqft) of wall space or table space to conduct causal factor analysis mapping with "post-it" notes during the session long case study.
- A large dry-erase board or three easel boards or an operational smart board.
- Capability to support use of closed container beverages (Water, Coffee, etc.).

Course Schedule: (5 days / 40 hrs)

• Class begins 0730 and ends 1630, Monday through Friday with performance and written exams.

Instructor Travel:

- CMC(SD) funds investigator/instructor travel for USMC host commands.
- USN commands must seek approval from the Director of Marine Corps safety for feasibility of support.

Course Dates & Locations:

• *Mobile Training Course:* Course dates are dependent on instructor / investigator availability. Plan at least 8 to 12 months in advance and provide alternate dates.

Attendance Requirements: Personnel must attend the full course to receive a certificate. Any personnel missing time for pre-planned appointments or command issues (*Medical, field day, meetings, etc.*) should reschedule appointments or class attendance.

• *Active Duty:* IAW OPNAVINST 5100.23H, OPNAVINST 1500.75D, NAVMC 1553.2 or MCO 5100.29C, each member should be assigned in writing as the unit Safety Officer/Manager (E6 to O5), High Risk Training Officer (HRTSO) or Aviation Safety Officer (ASO).

• *DoD Civilians:* Priority is given to civilians within the SOH Community of Interest: GS-0017, 0018, 0019, 0690, and 0803. Each member must be assigned to a position that requires skills to mitigate hazards or advise safety investigators as a subject matter expert

• Each student *must bring* their unit's (hard or electronic) copy of the OPNAVINST 5102.1D/MCO P5102.1B *with Change 2*. The current version is located at:

<https://www.marines.mil/News/Publications/MCPPEL/Electronic-Library-Display/Article/900413/mco-p51021b-wch-1-2/>

To Request Training: *USMC may contact*

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