



COMPREHENSIVE OFFSHORE HELICOPTER SAFETY AND OPERATIONS TRAINING COURSE

14 - 18 DEC 2026

BERLIN

5800 € (PER PERSON)

REF: #AVI8537_80661



COURSE INTRODUCTION / OVERVIEW:

The offshore environment presents unique and demanding challenges for aviation, where the margin for error is virtually non-existent. This course provides a comprehensive A-to-Z exploration of helicopter operations and safety standards tailored specifically for the offshore industry. It moves beyond basic procedural compliance to instill a deep-seated culture of safety and operational excellence. Drawing upon foundational principles outlined in key industry standards, such as the UK Civil Aviation Authority's seminal publication, "CAP 437: Standards for Offshore Helicopter Landing Areas," this program delves into the critical interplay between technology, human factors, and environmental variables. As noted by aviation safety expert Dr. Tony Kern, human error remains a significant factor in incidents, making a robust understanding of Crew Resource Management (CRM) and Safety Management Systems (SMS) indispensable. BIG BEN Training Center has designed this curriculum to equip participants with the knowledge and practical skills to manage risks effectively, ensure regulatory adherence, and lead emergency response with confidence, ultimately safeguarding personnel and high-value assets in one of the world's most challenging operational theaters. This training is an essential investment in proactive safety management and operational integrity.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Helicopter Landing Officers (HLOs).
- Helideck Assistants (HDAs).
- Offshore Installation Managers (OIMs).
- Aviation Safety Advisors and Officers.
- HSE Managers and Personnel.
- Logistics and Marine Coordinators.
- Pilots and Aircrew involved in offshore operations.
- Emergency Response Team Members.
- Regulatory and Compliance Officers.
- Personnel involved in the planning and supervision of offshore helicopter flights.



TARGET SECTORS AND INDUSTRIES:

- Oil and Gas Exploration and Production.
- Offshore Renewable Energy (Wind, Tidal).
- Maritime and Shipping Industries.
- Search and Rescue (SAR) Organizations.
- Governmental agencies, including coast guards and naval forces.
- Offshore Construction and Decommissioning.
- Telecommunications and Subsea Cable Installation.
- Environmental Monitoring and Research.

TARGET ORGANIZATIONS DEPARTMENTS:

- Operations Department.
- Health, Safety, and Environment (HSE) Department.
- Aviation and Logistics Department.
- Emergency Response and Crisis Management.
- Marine and Offshore Operations.
- Compliance and Regulatory Affairs.
- Training and Development.
- Asset Integrity and Maintenance.



COURSE OFFERINGS:

By the end of this course, the participants will have able to:

- Apply international standards and regulations, including CAP 437 and ICAO Annex 14, to offshore operations.
- Manage helideck and helicopter operations with a focus on proactive risk mitigation.
- Implement and oversee robust Safety Management Systems (SMS) in an offshore aviation context.
- Analyze the impact of human factors and apply Crew Resource Management (CRM) principles.
- Develop and execute comprehensive emergency response plans for various offshore scenarios.
- Conduct effective pre-flight planning and weather assessment for offshore helicopter transport.
- Oversee safe passenger and freight handling procedures on offshore installations.
- Coordinate effectively with aircrew, marine vessels, and onshore support teams.
- Identify and manage the unique hazards associated with offshore helicopter refueling and maintenance.
- Lead incident investigations and contribute to a continuous improvement safety culture.

COURSE METHODOLOGY:

The training methodology at BIG BEN Training Center is designed to foster a dynamic and immersive learning environment that bridges theory with real-world application. This course utilizes a blended approach, combining expert-led presentations with highly interactive sessions. Participants will engage in detailed case study analyses of significant offshore aviation incidents, deconstructing the chain of events to extract critical safety lessons. Group discussions and syndicate exercises will encourage collaborative problem-solving, allowing attendees to share experiences and perspectives on managing operational challenges. Practical simulations of emergency scenarios, such as helicopter ditching response and helideck fire drills, will be conducted through tabletop exercises to reinforce procedural knowledge and decision-making under pressure. The curriculum is built on a foundation of continuous feedback, with instructors providing guidance and facilitating a learning process that empowers participants. Our approach ensures that attendees not only learn the regulations but also understand the rationale behind them, enabling them to return to their organizations with the confidence and competence to enhance offshore aviation safety from day one.



COURSE AGENDA (COURSE UNITS):

UNIT ONE: FOUNDATIONS OF OFFSHORE AVIATION SAFETY AND REGULATIONS

- Introduction to Offshore Helicopter Operations.
- International and National Regulatory Frameworks (ICAO, EASA, FAA).
- In-depth Analysis of CAP 437 Standards for Offshore Helidecks.
- The Role and Responsibilities of Key Offshore Aviation Personnel.
- Principles of Aviation Safety Management Systems (SMS).
- Introduction to Risk Assessment and Hazard Identification.
- Understanding Offshore Environmental and Weather Factors.

UNIT TWO: HELIDECK OPERATIONS AND PROCEDURES

- Helideck Design, Markings, and Lighting Systems.
- Pre-operational Helideck Inspections and Safety Checks.
- Standard Operating Procedures for Helicopter Landing and Departure.
- Communication Protocols (Air-to-Ground and Deck-to-Bridge).
- Safe Passenger, Baggage, and Freight Handling.
- Helicopter Refueling Operations and Fire Safety.
- Management of Dangerous Goods by Air.

UNIT THREE: HUMAN FACTORS AND CREW RESOURCE MANAGEMENT

- The Human Element in Offshore Aviation Safety.
- Principles of Crew Resource Management (CRM) for Ground and Air Crews.
- Decision-Making, Situational Awareness, and Communication Skills.
- Managing Fatigue and Stress in Offshore Environments.
- Developing a Proactive and Just Safety Culture.
- Error Management and Threat and Error Management (TEM) Models.
- Case Studies on Human Factors in Offshore Incidents.



UNIT FOUR: EMERGENCY PREPAREDNESS AND RESPONSE

- Offshore Emergency Response Planning (ERP).
- Helicopter Ditching and Underwater Escape Scenarios (HUET principles).
- Helideck Firefighting and Rescue Operations.
- Coordination with Search and Rescue (SAR) Services.
- First Aid and Medical Response in an Offshore Environment.
- Incident Investigation and Reporting Procedures.
- Post-incident Management and Crew Support.

UNIT FIVE: ADVANCED OPERATIONS AND FUTURE OF OFFSHORE AVIATION

- Operating in Adverse Weather and Low Visibility Conditions.
- Night Operations and Use of Night Vision Imaging Systems (NVIS).
- Helicopter Performance, Limitations, and Weight and Balance.
- Integrating Unmanned Aerial Systems (UAS) in Offshore Operations.
- Technological Advancements in Helicopter and Helideck Safety.
- Sustainability and Environmental Considerations in Offshore Aviation.
- Course Review, Final Assessment, and Action Planning.

FAQ:

QUALIFICATIONS REQUIRED FOR REGISTERING TO THIS COURSE?

There are no requirements.

HOW LONG IS EACH DAILY SESSION, AND WHAT IS THE TOTAL NUMBER OF TRAINING HOURS FOR THE COURSE?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.



SOMETHING TO THINK ABOUT:

Considering the increasing automation in aviation, how might the roles and responsibilities of helideck crews evolve to maintain safety in a more technologically advanced offshore environment?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by adopting a holistic, systems-thinking approach to offshore helicopter safety, moving beyond mere regulatory recital. While many programs focus narrowly on the procedural aspects of a Helicopter Landing Officer's duties, this curriculum integrates four critical pillars: stringent regulatory compliance based on standards like CAP 437, advanced human factors training rooted in Crew Resource Management, robust Safety Management System (SMS) implementation, and comprehensive emergency response preparedness. We place significant emphasis on the "why" behind the "what," using real-world case studies to explore the complex interplay of technical failures, environmental challenges, and human decision-making that leads to incidents. The content is designed not just to train personnel for routine operations but to cultivate a deep-seated safety mindset that enhances situational awareness and critical thinking. By focusing on developing a proactive safety culture rather than a reactive, compliance-driven one, participants are empowered to become true safety leaders who can anticipate risks, manage threats effectively, and drive continuous improvement within their organizations, ensuring a safer operational environment for all.