# Offshore Communication and Radio Operator Foundation

**GExperts Learning Academy | TV-X26 | TV | 3-12 months**

## Course overview

3-12 months TV programme focused on Offshore Communication and Radio Operator Foundation, using energy-sector cases and applied decisions.

Designed for: Trade entrants with supervised practical assessment

## Learning outcomes

- Explain core principles and terminology for Offshore Communication and Radio Operator Foundation.
- Interpret an applied case using evidence and stated assumptions.
- Identify risks, safeguards, role boundaries and escalation points.
- Prepare a clear recommendation for a multidisciplinary audience.

## Course guide

Work through each module objective, lesson and teaching note, complete the applied activity and assessment, then use the separate Academy practice page for practice questions and answer feedback.

Separate practice questions:
https://www.globalexpertsconsultoria.com/training/academy/courses/questions/?course=TV-X26

## Academic and certification status

Draft learning resource for study and review. It does not confer accreditation, external certification, a regulated qualification, professional licence, safety-critical competence or site authorisation. Confirm approvals, current laws, standards, approved procedures and awarding-body requirements before delivery.

# Module 1: Offshore telecommunications

## Learning objectives

- Explain offshore telecommunications, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore telecommunications
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore communications connect voice, data, control and emergency functions through links with differing bandwidth, latency and availability. Define service requirements before selecting technology. Emergency and operational needs may require resilience independent of business traffic.

Decision logic. Create a dependency map and test loss-of-link scenarios. A redundant link is useful only if common failures are understood. Remote support needs access control and agreed authority. Do not expose real network details in course submissions.

Worked example. Two nominally redundant links share one power supply, creating a common failure point.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Design a conceptual communications matrix with primary and fallback services.

Model answer guide. Include power, physical diversity, capacity, latency, security and failure response.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Design a conceptual communications matrix with primary and fallback services.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 2: Offshore Communication and Radio Operator Foundation: Risk Co

## Learning objectives

- Explain offshore communication and radio operator foundation: risk controls, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Risk Controls
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Risk Controls describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: risk controls. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: risk controls while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: risk controls: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: risk controls: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 3: Emergency preparedness and command

## Learning objectives

- Explain emergency preparedness and command, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Emergency preparedness and command
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Emergency planning identifies credible scenarios, warning, command, communications, muster, evacuation, medical support and external interfaces. Responsibilities and fallback communications should be understood before an event. Awareness differs from emergency-team qualification.

Decision logic. Use tabletop exercises with timed injects, observer records and debrief actions. Test loss of communications or unavailable resources. Never simulate an actual distress call or activate real emergency equipment without authorised arrangements.

Worked example. A fictional offshore incident interrupts the primary communication link during a weather restriction.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Run a tabletop with incident controller, operations, logistics and communications roles.

Model answer guide. Prioritise people, establish command, verify information, use planned backup channels and document decisions.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Run a tabletop with incident controller, operations, logistics and communications roles.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 4: Marine operations and station keeping

## Learning objectives

- Explain marine operations and station keeping, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Marine operations and station keeping
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Floating facilities and vessels maintain position through mooring, dynamic positioning or combinations appropriate to their design. Marine operations depend on weather, equipment condition and personnel competence. Explain station-keeping failure consequences for risers, lines and transfer operations.

Decision logic. Operating windows are vessel- and task-specific. Review weather forecasts, redundancy, assurance and abort criteria before work. Do not use classroom numbers as vessel limits. Interface plans should define who can pause the operation and how changes are communicated.

Worked example. An operation remains within yesterday's forecast but the latest forecast deteriorates during the planned work window.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a go-or-defer briefing identifying information needed, authority and contingency.

Model answer guide. Use current metocean data, approved limits, equipment status and safe disengagement planning.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a go-or-defer briefing identifying information needed, authority and contingency.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 5: Offshore Communication and Radio Operator Foundation: Work Pl

## Learning objectives

- Explain offshore communication and radio operator foundation: work planning, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Work Planning
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Work Planning describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: work planning. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: work planning while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: work planning: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: work planning: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 6: Offshore Communication and Radio Operator Foundation: Data an

## Learning objectives

- Explain offshore communication and radio operator foundation: data and performance, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Data and Performance
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Data and Performance describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: data and performance. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: data and performance while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: data and performance: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: data and performance: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 7: Offshore Communication and Radio Operator Foundation: Applied

## Learning objectives

- Explain offshore communication and radio operator foundation: applied case, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Applied Case
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Applied Case describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: applied case. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: applied case while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: applied case: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: applied case: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 8: Offshore Communication and Radio Operator Foundation: Commu

## Learning objectives

- Explain offshore communication and radio operator foundation: communication and escalation, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Communication and Escalation
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Communication and Escalation describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: communication and escalation. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: communication and escalation while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: communication and escalation: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: communication and escalation: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 9: Offshore Communication and Radio Operator Foundation: Knowle

## Learning objectives

- Explain offshore communication and radio operator foundation: knowledge check, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Knowledge Check
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Knowledge Check describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: knowledge check. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: knowledge check while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: knowledge check: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: knowledge check: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Module 10: Offshore Communication and Radio Operator Foundation: Compe

## Learning objectives

- Explain offshore communication and radio operator foundation: competence review, interpret a case, select appropriate controls and justify a documented decision.

## Lessons

1. Purpose and key terms of Offshore Communication and Radio Operator Foundation: Competence Review
2. Systems and operating context
3. Evidence, assumptions and decision gates
4. Hazards, safeguards and escalation
5. Applied case: Offshore Communication and Radio Operator Foundation

## Detailed teaching notes

Teaching notes

Core explanation. Offshore Communication and Radio Operator Foundation: Competence Review describes a practical part of Offshore Communication and Radio Operator Foundation. Learners connect the principles to asset performance, people, operational risk, project value and local context.

Decision logic. Review the objective, evidence, limits, interfaces and applicable controls for offshore communication and radio operator foundation: competence review. Decisions require current information, role-appropriate authority, competent review and documented assumptions.

Worked example. Use an applied Namibia-relevant case in which a team plans offshore communication and radio operator foundation: competence review while balancing safety, integrity, schedule, cost, environmental protection and local capability.

Facilitator prompts. Ask learners to distinguish verified facts from assumptions, identify who has decision authority, name stop-work triggers and state what evidence could change their recommendation. Compare technical, HSE, commercial and community perspectives.

Activity. Prepare a decision brief for offshore communication and radio operator foundation: competence review: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

Model answer guide. A sound response defines scope; uses current, traceable evidence; applies approved requirements and controls; records assumptions; assigns competent owners; checks interfaces; and communicates a measurable decision with an escalation path.

Assessment evidence. Score accuracy (30%), use of evidence (20%), safeguards (20%), analysis (20%) and communication (10%).

## Applied activity

Prepare a decision brief for offshore communication and radio operator foundation: competence review: scope, evidence, assumptions, hazards, safeguards, owner, decision gate and escalation trigger.

## Assessment

Formative: 10-question practice quiz with answer feedback

Summative: Applied decision brief or practical case assessed against the rubric; proposed pass mark 70%, subject to academic approval.

## Practice

Use the separate Academy practice questions and answer key page for this module.

# Facilitator close-out and resources

## Facilitator close-out

Record attendance, assessment evidence, learner support needs, incidents and improvement actions according to approved provider processes. Do not sign learners off for regulated or safety-critical work without the authorised assessment and certification route.

## Resources and references

- Supplied GExperts/IUM reference materials; verify reuse rights and currentness.
- Current applicable Namibian legislation, standards and approved site procedures supplied by the provider.
- Case worksheet and instructor slides must be produced and reviewed before course release.