



Yehweh Conglomerate Inc

JV NSAMA-AYAN DELTA COMPANY LTD.

<https://yehwehnadco.com>



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ONSHORE - OFFSHORE TRAINING GUIDE

EACH OF THE RESPECTIVE FIELD / UNIT
HAVE A MODEL OF ABOUT

2160HRS, (15 WEEKS) DURATION

FROM BEGINNER, INTERMEDIATE, AND ADVANCE

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ELECTRONIC SECURITY & SURVEILLANCE

CCTV SURVEILLANCE SECURITY

CCTV Camera Installation Course for Electricians &
Newbies Learn CCTV Security Systems From a Pro: IP CCTV, HD CCTV &
Analogue for: Beginners & Professionals

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What you'll learn

- Skills that will help you enter booming security industry and get well paid job. Security is rapidly shifting from old CCTV and Alarm Systems to IP systems.
- Setup of DVRs with HD cameras, use of 2MP, 3MP, 5MP or 8MP (4K - Ultra HD) cameras, HD camera formats: TVI, CVI, AHD, SDI.
- Programming of IP cameras and NVRs with live examples. IP camera and NVR types and difference between them.
- Video compression, comparison of H.264, H.265, H.265+, what frames per second (fps) to pick.
- Basics of IP Networks required to work with IP Camera Systems: Ethernet connections, IP addresses, ports, routers and switches.
- Tools and software required to work with IP cameras. Live examples how to use the software.
- How CCTV camera works, how to calculate focal length required for your surveillance objective, camera parameters.

Course content

10 sections 51 lectures 9h 12m total length

Basics of CCTV

10 Lectures – 1 Hr 39min

- CCTV Cameras Resolutions from CIF to 4k 10:14
- Video Surveillance Goals 24:02
- Importance of Setting the Right Frame Rate in CCTV 02:34
- How to Power CCTV Cameras 04:14
- How CCTV Camera Works 06:14
- Difference between Analogue, HD and IP Cameras 08:00
- Examples of Old and New Cameras 05:09
- CCTV Storage, DVR & NVR with HDD 03:56
- HIKVISION Hybrid DVR & NVR – Installing & replacing Hard Drive (mechanical part) 26:25
- HIKVISION Hybrid DVR – Installing Hard Drive (initialization) 07:55

IP Cameras Systems – basics of IP Networks

10 lectures – 1 hr 24min

- LAN and WAN Networks, What They Are and How They Work 09:38
- Ethernet Cable – How Devices Connect on Networks 12:08

- IP addresses – What They Are and How They Work 14:21
- Ports in IP/TCP – What They Are and How we use them 08:45
- DNS in IP Networks, What It is and How we Use it 02:48
- Routers and Switches, what they are and how we use them
- In IP CCTV 10:42
- PoE - What it is and how we use it in IP CCTV 08:16
- Live Examples of Most Common PoE Devices 06:26
- How to Use CMD – Command Prompt on your computer 06:48
- How to change IP of your computer 04:02

IP Cameras System – IP Cameras

6 Lectures – 1Hr 11min

- Types of IP Cameras 07:57
- IP Camera – Video Quality Contributors 05:30
- IP Cameras – How to program them 05:34
- Live Programming of IP Camera with varifocal lenses 24:17
- Live Example of Simple WiFi Enabled PTZ Camera Setup 21:30

IP Cameras System – Network Video Recorders (NVR) 7 Lectures – 1Hr 44min

- NVR Types 06:42
- Network Video Recorder setup and programming 08:47
- Adding IP Cameras to NVR 03:14
- Live Programming of HIKVISION NVR Initial steps (monitor view) 05:33
- Live Programming of HIKVISION NVR – Adding Cameras in Plug & Play Mode 25:52
- Live Programming of HIKVISION NVR from web browser 21:11

IP Cameras System – Useful Tools

6 Lectures – 45min

- Advanced IP Scanner – Installation and basic functions 08:26
- Network cable tester 06:26
- Simple PoE Tester 05:30
- Using IC Real-Time Config Tool, Initializing cameras, changing IP 15:16
- HIKVISION SDAP Tool Installation 05:00
- HIKVISION SDAP Tool – Detecting Devices – Changing IP
- Password recovery 04:39



IP Cameras System – Video Management Software (VMS) 46min

3 Lectures –

- VMS – IC Real Time VMS: Smart IC RSS – First Steps 24:58
- VMS – HIKVISION: iVMS 4200 – installation only 12:05
- VMS – HIKVISION: iVMS 4200 – First Steps 09:12

HD Camera System – HD and Analogue Cameras

7 Lectures – 1Hr 25min

- HD Camera Resolution 03:29
- HD Camera Protocols 03:45
- Cables for HD and Analogue Cameras 04:42
- DVR Types and setup process 05:21
- Live Hardware Setup of a simple Hybrid DVR 10:57
- Live Programming of a simple Hybrid DVR (monitor view) Part 1 16:00
- Live Programming of a simple Hybrid DVR (monitor view) Part 2 40:26

Troubleshooting of HD & Analogue Cameras

2 Lectures – 18min

- 2 Main Tools for troubleshooting HD & Analogue CCTV 10:07
- Basic troubleshooting of HD & Analogue Cameras 08:04

Setting Up a CCTV Control Room: What you need to know

It is common to find a CCTV room in or around office and apartment buildings. These special rooms play essential roles as the security and surveillance hub for any installation. Whether you are a security expert or a home or business owner looking to improve security, having a CCTV room can be an effective solution.

- What is a CCTV Control Room?
- Tips for Planning the CCTV Room's Layout
- Equipment in a CCTV Control Room
- Standard Operating Procedures of a CCTV Control Room
- Daily Checklist When Operating a CCTV Control Room
- Duties and Responsibilities of Operators
- How to Design CCTV Control Rooms with examples
- FAQs



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Course content

ONSHORE SAFETY COURSE

51 Lectures

• Dynamic Positioning (DP) Basic	5 Days – 120Hrs
• Dynamic Positioning (DP) Advance	5 Days – 120Hrs
• Dynamic Positioning (DP) Maint./Tech.	5 Days – 120Hrs
• Dynamic Positioning (Familiarization)	2 Days – 48Hrs
• Introduction to Drilling	5 Days – 120Hrs
• IWCF Drilling Well Control (Level 2)	5 Days – 120Hrs
• IWCF Drilling Well Control (Level 3)	5 Days – 120Hrs
• IWCF Drilling Well Control (Level 4)	5 Days - 120Hrs
• STCW 2010 Charkin Revalidation others	5 Days – 120Hrs
• Rating forming part of navigational watch	5 Days – 120Hrs
• Bridge Resource management	3 Days – 72Hrs
• COXSWAIN	5 Days – 120Hrs
• ECDIS	5 Days – 120Hrs
• GMDSS	10 Days – 240Hrs
• Char kin Revalidation others	5 Days – 120Hrs
• Rating forming part of Engineering Watch	5 Days – 120Hrs
• Proficiency in Tanker Familiarization	5 Days – 120Hrs
• Proficiency in Survival Craft and Rescue Boats	4 Days – 96Hrs
• International Safety Management (ISM)	1 Day – 24Hrs
• TFOT (OPITO)	1 Day – 24Hrs
• THUET (OPITO)	1 Day – 24Hrs
• TSBB (OPITO)	1 Day – 24Hrs
• Offshore Emergency Response Team Leader (ORRTL)	3 Days – 72Hrs
• Offshore Emergency Response Team Member (OERTL)	3 Days – 72Hrs
• Incipient Fire Fighting	1 Day - 24Hrs
• Helideck Fire Fighting	3 Days – 72Hrs
• Helideck Assistant	2 Days – 48Hrs
• Helicopter Landing Officer (HLO) Initial Training & Dangerous	
• Goods by Air	3 Days – 72Hrs
• Helideck Team Member	3 Days – 72Hrs
• CA-EBS (OPITO)	1 Day – 24Hrs
• CA-EBS (DPR)	1 Day – 24Hrs
• Stuck Pipe prevention	1 Day – 24Hrs



- Banksman 3 Days – 72Hrs
- Confidence Space 3 Days – 72Hrs
- Forklift Training 3 Days – 72Hrs

Stage 1 training

- Operation (Sim Based) 5 Days – 120Hrs

Stage 2 training

- Crane Operation (Sim Based) 5 Days – 120Hrs

Stage 3 training

- Offshore Crane Operator Assessment 1 Day – 24Hrs

Stage 3 training

- Offshore Crane Operator Assessment 1 Day – 24Hrs

Stage 3 training

- Re-assessment (Sim Based) 1 Day – 24Hrs

- **Basic ASD Tractor Tug Course**
- **Advance ASD Tractor Tug Course**
- **Basic Ship Handling Course**
- **Advance Ship Handling Course**
- **Basic Mooring Master/Loading Master**
- **Basic Open Water and Redistricted Waters**
- **Advance Pilotage**
- **Mooring Master/Loading Master Refresher Course**
- **Pilot Refresher Course**



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SECURITY PERSONNEL TRAINING

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Course Outline:

Offshore and Onshore Security Personnel Training

This training program is designed to equip security personnel with the knowledge and skills required to effectively manage security operations both offshore and onshore. The course focuses on threat detection, emergency response, safety protocols, and legal aspects specific to offshore and onshore environments.

Module 1: Introduction to Offshore and Onshore Security

- Overview of Security Roles
 - Importance of security in offshore and onshore operations
 - Responsibilities of security personnel in industrial, oil, and gas sectors
- Understanding Offshore and Onshore Facilities
 - Structure and layout of onshore facilities and offshore installations (e.g., oil rigs)
 - Differences in security challenges for both environments

Module 2: Health, Safety, and Environmental (HSE) Awareness

- Basic Health and Safety Guidelines
 - Safety standards and regulations in offshore and onshore industries
 - Personal Protective Equipment (PPE) usage
 - Hazard identification and risk management
- Emergency Response and Evacuation Protocols
 - Emergency procedures for offshore platforms and onshore facilities
 - Firefighting techniques and equipment
 - First aid and medical response in offshore/onshore environments

Module 3: Threat and Risk Assessment

- Security Threats in Offshore and Onshore Environments
 - Common security threats (terrorism, piracy, theft, and sabotage)
 - Threat assessment methodologies and frameworks
- Risk Management Practices
 - Conducting risk assessments
 - Mitigation strategies and contingency planning

Module 4: Access Control and Surveillance

- Electronic Surveillance Systems
 - CCTV setup and operation
 - Access control systems and badge scanning
- Physical Security Measures
 - Guarding entry points and monitoring restricted areas
 - Perimeter security for onshore facilities and offshore installations

Module 5: Crisis Management and Communication

- Incident Management Procedures
 - Reporting and documenting incidents
 - Coordination with emergency services and law enforcement agencies



- Communication Skills
 - Effective communication during crises
 - Use of communication tools (radios, satellite phones) in remote offshore environments

Module 6: Legal and Regulatory Compliance

- Legal Aspects of Offshore and Onshore Security
 - Understanding international maritime law for offshore security
 - Local and international regulations governing onshore industrial security
- Compliance with Safety Standards
 - Compliance with ISO 9001, ISO 14001, and other relevant security and safety standards

Module 7: Security Technology and Innovation

- Advanced Surveillance Systems
 - Use of drones and unmanned aerial vehicles (UAVs) for security monitoring
 - Remote Operated Vehicles (ROVs) for underwater surveillance and inspection
- Cybersecurity Measures
 - Protecting against cyber threats targeting offshore and onshore facilities
 - Securing critical infrastructure networks

Module 8: Practical Drills and Simulations

- Security Drills
 - Mock drills for responding to piracy, terrorist attacks, and other threats
 - Fire evacuation and emergency response simulations
- Physical Fitness Training
 - Fitness requirements for security personnel
 - Survival training for offshore security personnel

Assessment and Certification

- Final Assessment: Written test, practical drills, and security scenario simulations.
- Certification: Upon successful completion, participants will receive an Offshore and Onshore Security Personnel Training Certificate.

Duration:

- 5 Days (40 hours of comprehensive training)

Target Audience:

- Security personnel assigned to offshore and onshore industrial sectors, oil and gas facilities, and maritime security teams.

This course will provide security personnel with a thorough understanding of the unique challenges of offshore and onshore environments, enabling them to respond effectively to security risks and emergencies



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RADIO OPERATIONS AND MAINTENANCE

FROM BEGINNER, INTERMEDIATE, AND ADVANCE

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Course Outline:

Onshore and Offshore Radio Operation and Maintenance

This training program is designed to equip participants with the skills needed to effectively operate, maintain, and troubleshoot radio communication systems in onshore and offshore environments. Participants will gain knowledge of radio technologies, safety protocols, and regulatory requirements specific to both onshore and offshore operations, particularly in industries such as oil & gas, marine, and industrial facilities.

Module 1: Introduction to Radio Communication Systems

- Basics of Radio Communication
 - Understanding radio frequencies, wave propagation, and signal transmission
 - Types of radio communication systems (HF, VHF, UHF) used in onshore and offshore operations
- Roles of Radio Operators
 - Responsibilities of onshore and offshore radio operators
 - Importance of communication in critical industries (oil rigs, maritime, industrial sectors)

Module 2: Offshore and Onshore Communication Protocols

- Offshore Communication
 - Maritime communication standards (GMDSS)
 - Use of marine VHF radios and satellite communication systems on offshore platforms
- Onshore Communication
 - Land-based communication protocols (e.g., industrial plants, oil & gas fields)
 - Communication between control centers and remote sites
- Communication Etiquette
 - Standard operating procedures for clear and effective communication
 - Understanding call signs, phonetic alphabets, and distress signals (MAYDAY, PAN-PAN)

Module 3: Equipment Overview and Setup

- Radio Equipment Types
 - Handheld radios, base stations, satellite radios, and repeaters
 - Selecting appropriate radio equipment for onshore and offshore environments
- Antenna Systems
 - Antenna installation and optimization for signal strength
 - Understanding different types of antennas (e.g., whip antennas, dipole antennas)
- Radio Setup and Configuration
 - Installing and configuring radio systems for optimal performance
 - Frequency selection and interference management



Module 4: Radio Operation and Best Practices

- Operation of HF, VHF, and UHF Radios
 - Frequency selection and tuning for onshore/offshore conditions
 - Correct use of squelch, volume control, and frequency selection
- Emergency Communication Protocols
 - Handling emergency calls and distress signals
 - Coordinating with emergency response teams in offshore and onshore scenarios
- Practical Exercises
 - Hands-on radio operation for both onshore and offshore scenarios
 - Role-playing communication scenarios, including emergency situations

Module 5: Radio System Maintenance

- Preventive Maintenance of Radio Systems
 - Regular checks for system integrity (antennas, cables, power supplies)
 - Routine inspection of handheld radios and base stations
- Troubleshooting and Repairs
 - Identifying common radio faults (e.g., poor transmission, interference, dead zones)
 - Basic repair techniques and when to escalate to professional maintenance
- Battery Management
 - Proper care and maintenance of radio batteries
 - Best practices for charging and prolonging battery life in offshore environments

Module 6: Safety and Regulatory Compliance

- Health and Safety in Radio Operations
 - Safety protocols when handling radio equipment in hazardous environments
 - RF (Radio Frequency) exposure and its health implications
- Compliance with International Standards
 - Radio communication regulations (e.g., ITU, SOLAS)
 - Licensing requirements for onshore and offshore radio operators
- Environmental Considerations
 - Protection against weather conditions (offshore storms, saltwater exposure)
 - Explosion-proof equipment for offshore platforms

Module 7: Advanced Technologies in Radio Communication

- Satellite Communication Systems
 - Overview of satellite phones and satellite radios for offshore operations
 - Usage of Inmarsat, Iridium, and VSAT systems
- Digital Radio Systems



- Transition from analog to digital radio systems (DMR, TETRA)
- Advantages of digital systems in improving communication reliability

Module 8: Practical Drills and Simulations

- Offshore Radio Communication Simulations
 - Role-playing exercises for operating radios in offshore environments
 - Drills for handling emergencies such as evacuations, fires, or rig breakdowns
- Onshore Control Room Simulations
 - Simulating radio communication in industrial plants and remote site coordination
 - Monitoring multiple radio channels and communicating with mobile units

Module 9: Assessment and Certification

- Written and Practical Assessment
 - Written tests on radio operation procedures and safety protocols
 - Practical tests in setting up, operating, and troubleshooting radio systems
- Certification
 - Upon successful completion, participants will be awarded a certification in Onshore and Offshore Radio Operation and Maintenance

Course Duration:

- 5 Days (40 hours of comprehensive training)

Target Audience:

- Offshore and onshore radio operators, oil & gas industry personnel, maritime communication teams, and industrial site supervisors.

This course ensures that participants are fully equipped to handle the complexities of radio communication in both onshore and offshore environments, maintaining safety and operational efficiency at all times



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