

BNBC ACADEMY

TRAINING COURSES AND CONSULTANCY SERVICES CATALOG



1. WHO IS BNBC INTERNATIONAL ?

BNBC Academy is a training organization under BNBC INTERNATIONAL company. We are a leading training organization using state of the art simulation based training services and technologies.

We have the best partners as instructors and consultants to provide you the best and most efficient training services.

BNBC INTERNATIONAL provides CUSTOMIZED and LOCALIZED TRAINING Course Content dedicated and tailored to your company’s training requirements.

Depending on the vision and field of your organization, we have different training and consultancy services to meet your requirements using our 27 years of experience.

Our Mission: To provide business development, engineering and project management services to our partners in Aerospace, Defense and Information Technologies for them to develop customer focused and differentiating products, concepts and services in order to increase their profitability.



BNBC International Office Location

2. Company Information and Profile

Company Full Name	BNBC International Engineering, Consultancy and Trade Ltd.
Adress	Universiteler Mah. Hacettepe Teknokent 6. ARGE E-Blok No:48 CANKAYA-ANKARA TURKEY
Point of Contact	Lutfu OZCAKIR General Manager +905304160412

	ozcakit@bnbcinternational.com
Partners	Hakan KARAPINAR, MS, Electronics Eng. Lutfu OZCAKIR, MS, Electronics Eng
Official Registration Institute and Number	Ankara Chamber of Commerce 414255
Web site	www.bnbcinternational.com

3. Customized Turn Key Training Services

At BNBC, we pride ourselves on delivering cutting-edge high technology and business-related trainings that set the standard in the industry. Our commitment to excellence is reflected in our state-of-the-art teaching techniques, immersive simulations, and interactive workshops designed to empower professionals and businesses with the skills needed to thrive in today's dynamic landscape.

Experience a seamless learning journey with our turnkey training services, encompassing everything from meticulously crafted training materials to flexible training locations. Whether you prefer the comfort of a hotel or classroom setting, or the convenience of on-site training at your facilities, we've got you covered. As a bonus, enjoy complimentary access to the BNBC Academy Learning Management System, ensuring continuous learning beyond the classroom

4. Training Locations

BNBC Academy provides trainings at the following locations:

- Ankara – TURKEY
- İstanbul – TURKEY
- Riyadh – Saudi Arabia
- Doha – Qatar
- Abu Dhabi – UAE
- Islamabad - Pakistan

5. Quality and Occupational Health

BNBC Academy applies the standards of military and ISO 9001 whenever needed during the projects and our services.

Turkish legislations and rules have been largely used by BNBC Academy for our employees and Customers.

6. BNBC ACADEMY Learning Management System

BNBC ACADEMY has a learning management system, which supports the training given face to face. The students can access the BNBC LMS and can take the full advantage of the course materials, videos and all other related documentation.

Customized LMS systems for your institution is also available based on your own training requirements.



Figure 1 BNBC ACADEMY LEARNING MANAGEMENT SYSTEM

7. TRAINING SERVICES and INSTRUCTORS

Our trainings are interactive, includes workshops and the training is provided with one to one mentoring and consultancy services for your company.

When combined with mentoring and coaching, those role play based trainings will be very efficient for your company.

- All attendees will get a BNBC INTERNATIONAL Training Certificate.
- All attendees will have the right to access BNBC International Learning Management System for the courses they attend.
- Training materials (books, slides, workshop materials) will be provided as soft and hard copy and will be accessible through BNBC LMS System for 1 year

All of our instructors have more than 20 years of application and training experience in the related fields and provides comprehensive real world examples during the trainings.

We also provide workshops which simulates real projects and systems which allows trainees use their theoretical information in practice also.

8. TRAINING SERVICES

Our training services are divided into following subcategories:

1. **Project and Contract Management**
 - Technology Transfer Training
 - Applied Project Management
 - Risk Management

- How to prepare the best RFP package for your acquisition projects.
- Defence Concept of Operation
- Capability Planning
- Contract Management
- Subcontract Management
- Logistics and Transportation Management
- Procurement, Supply Chain Management and Supplier Ecosystem
- 2. Integrated Logistic Support for Defence Systems**
 - **Integrated Logistic Support Management**
 - **Performance Based Logistics**
- 3. Defence Industry Trainings**
 - Information Security and Counter Intelligence Awareness Training for Defence Professionals
- 4. General Technical System Trainings**
 - System Engineering in Defence Projects
 - Requirement Management
 - Manufacturing and Planning
 - CAD Drawings
 - Tooling Design Engineering
 - Modelling, Simulation and Training Systems
 - Test Management in Defence Systems (internal and customer tests)
 - Aerodynamics and CFD Introduction, Applications with Workshop
- 5. Software Engineering**
 - Software Testing and Integration
 - Embedded Systems and C++ Programming
 - Electrical and Software Interfaces and Programming Interfaces (TCP/IP, MUXBUS, ARINC BUS, Ethernet, CANBUS, RS232 etc.)
 - Networking and Data Communication Basic and Use in Defence Equipment
 - Python Programming Intermediate
 - Advanced Python Programming and Use in Defence Industry
 - FPGA and VHDL Programming and Design
 - Software Design and Architecture for Defence Systems
 - GUI and Man Machine Interface Design
 - DO-178 Software Design and Development
 - Software Testing for Defence Projects
 - Artificial Intelligence and Software Programming in Defence Systems
 - Target Detection and Identification from Different C2 Sensors
- 6. Electronics Engineering**
 - Basic Electronics for technicians and engineers
 - Electromagnetics, Design and its applications in defence
 - Antennas and Wave Propagation
 - Electrostatic (ESD) Discharge Training
 - Actuators and Electromechanical Systems in Defence Systems
 - PCB and electronic design
- 7. Unmanned Air Systems**
 - UAV Familiarization and Fundamentals Training

- UAV and E-VTOL Design and Subsystems Trainings (aerodynamics, interfaces and subsystems including all design processes and workshops with MATLAB and SIMULINK applications)
- UAV Payloads Selection, Integration and Mission Systems (Radar, Electronic Warfare, EO, LIDAR, SAR)
- UAV Electrooptics and Gimbal Systems Trainings (Introduction and Design and Development)
- UAV Avionics, selection, integration and testing
- Unmanned Air Vehicle Design and Manufacturing (flight mechanics, aerodynamics, analysis and test, manufacturing)
- UAV Payload Operator EO Training (Target Detection, Classification, Troubleshooting, Command and Control Cycle)

8. Electrooptical Systems

- Infrared and DAYTV Camera Systems, Introduction, Design and Manufacturing
- EO Camera Technologies: From Concept to Production
- Seeker Systems: Design, Manufacturing, and Integration
- Lens Design and Manufacturing for Electro-Optic Applications
- Weapon Sights Technology, Design and Manufacturing
- Sensor and Detectors in Electro-Optic Systems
- Comprehensive Training in Electro-Optic Systems: Design and Manufacturing Aspects
- IR Seekers Familiarization, Design and Integration
- Common Aperture EO Systems and Gimbals
- EO system maintenance and troubleshooting
- EO System alignment, calibration and testing

9. Communication Systems

- Military Communication Systems Overview
- Software Defined Radios, Technology and Design
- Secure Communication Protocols
- Tactical Communication Systems Design
- Satellite Communication for Military Applications
- Cybersecurity of Military Communication Systems
- Advanced Radio Frequency (RF) Technologies for Military Communications
- Network-Centric Warfare
- Emerging Technologies in Military Communication

10. Aerospace Systems and Aviation Trainings

- Airplatforms Avionic Architecture
- Avionic Systems Familiarization and Design Considerations
- INS and Guidance Systems
- Aerodynamics and Aircraft Design (CFD, MATLAB and Simulink, Flight Mechanics)
- Mission Computers: Introduction, Design, Programming and Integration
- Cockpit avionics introduction, design and testing
- Flight Simulators: Introduction, Types, Design and Testing

11. Radar Systems and Technologies

- Introduction to Radar Systems, Design and Architecture
- Radar Signal Processing Techniques and Applications
- Antenna Design for Radar Applications

- Radar Cross Section (RCS) Analysis
- Advanced Radar Imaging Techniques
- Radar System Integration and Testing
- Radar Systems calibration, maintenance and troubleshooting

12. ISR Training

- Target Detection and Analysis using GIS and Remote Sensing
- Military Intelligence, Surveillance, and Reconnaissance (ISR) Planning and Operations with GIS
- Image Intelligence and ISR (Intelligence, Surveillance and Reconnaissance) Training

13. Remote Sensing, Geographical Information Systems and Mapping

- Geographical Information Systems (GIS) and Mapping Fundamentals
- Aerial Photography and Remote Sensing Techniques
- Satellite Image Processing
- Orthorectification and Image Processing in GIS

14. Underwater Acoustic Systems

- Sonar Systems: Introduction, Design and Architecture
- Decoys and Acoustic Jammers, Technology and Structure

15. Electronic Warfare Training

- Electronic Warfare Fundamentals and Overview
- Advanced Radar Threat Analysis
- Advanced Electro-optical (EO) and Infrared (IR) Threats
- Electronic Warfare Support (ESM) Systems Architecture and Technologies
- Electronic Attack (EA) Systems Architecture and Technologies
- Countermeasures Development Against Radar Threat (Radar Jamming)
- Communications Intelligence (COMINT) and Communications Electronic Support Measures (CESM)
- Electronic Intelligence (ELINT) and Radar Electronic Support Measures (RESM)
- Expendables and Decoy Systems
- Stealth Technologies and Applications
- Peacetime Electronic Warfare Operations and Activities
- Electronic Warfare Operational Support (EOB, Electromagnetic Spectrum Management, GNSS Jamming...)
- Tactical Communications Electronic Warfare (Communications Jamming)
- Electronic Warfare for Maritime Platform Protection
- Joint Electronic Warfare Command and Control
- Cyber and Electromagnetic Activities (CEMA)
- Cognitive Electronic Warfare

16. Air Defence Systems and Familiarization

17. C4ISR Systems and Network Centric Warfare

18. Weapon Systems

- Remote Controlled Weapon Systems Design and Manufacturing
- Missile Guidance Systems Familiarization
- Advanced Guidance Systems
- Air Defence System Architecture, Design and Testing
- External Ballistics and Sharpshooter Training

19. ISO Management Systems, Quality Systems and Engineering

- ISO9001 Basics and Introduction
- AS9100 Training
- Configuration Management in Defence Projects
- Software Configuration Management
- Quality Management Systems
- Incoming Inspection
- ISO19011 Internal Auditor Training

20. Occupational Safety and Health Trainings

- HAZMAT Familiarization
- Behavioral Risk Analysis
- Occupational Safety and Health Awareness
- ISO45001: 2018 Occupational Safety and Health
- Occupational Health & Safety Management Auditor/Lead Auditor
- Safety Leadership and OHS Field Audit
- Risk Assessment Training

21. Business Development, Sales and Marketing

- Business Development and Sales, Marketing
- Exhibition and Event Management
- New Product Development and R/D Process Management
- Proposal Management
- Opportunity Creation

22. Management and Leadership Trainings

- Strategic Management and Leadership In Defence Industry
- Organizational and Site Management
- Facility Management
- Human Resources(HR) Management
- Customer Relations and Marketing
- Change Management

23. Soft Skills Training

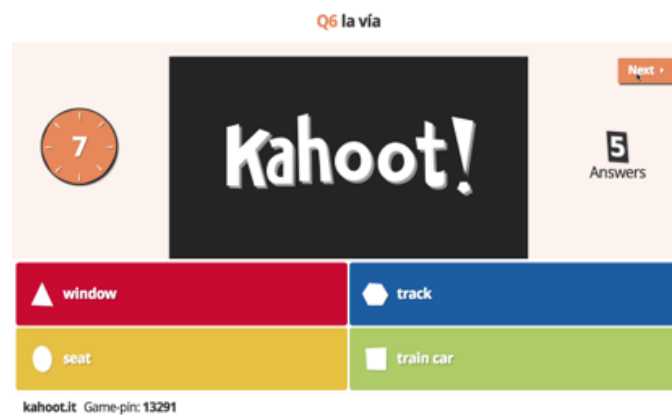
- Business Ethics
- Handling Difficult Customers
- Information Security Awareness and Counterintelligence Training in Defence Industry Professionals
- Time Management
- Stress Management
- Meeting Management
- Negotiations Skills, Strategies and Management in Business
- Customer Relations and Business Etiquette
- Working as a team and teamwork
- Finance for Nonfinance Manager

9. REPORTS, EXAMS and CERTIFICATES

During the course activities, exams are applied either in class or online and the performance of the training is reported to the Customer. We provide a comprehensive training report which gives valuable feedback about the trainees, their capabilities and future training opportunities they may need.

Certificates have unique QR code and can be verified online for fraud detection if required

During the course, we apply KAHOOT Online quiz system for the trainees refresh their information immediately during the class and have fun.



10. TERMS AND CONDITIONS FOR TRAININGS

- The training can be given in the **Customer facilities or in an appropriate hotel** including coffee and lunch for trainees based on customer request.
- The trainings can be done TRAINING + CONSULTANCY services, which can be made on customer facilities or online.
- **Based on customer request, trainings can be given in Riyadh, Jeddah, Islamabad, Dubai, Istanbul or Ankara – TURKEY (special leisure travel plans, hotel and activities can be offered separately)**
- The trainings are given from 9:00 AM to 16:00 PM each weekday.
- An interactive quiz will be done everyday
- An exam will be done after every course and evaluation reports will be given to the company
- **Each trainee will have access to the BNBC E-Learning System for 1 year**

11. CONSULTANCY SERVICES

As BNBC ACADEMY, we specialize in consultancy services focused on aerospace, defense, and military systems, providing tailored solutions to meet your specific needs. Our expertise lies in various areas, such as Aerospace and Defense Systems Design,

Military Simulation and Training Systems, Business and Strategy Development, as well as Proposal Management and Preparation.

With our System Engineering proficiency in aerospace and defense projects, we can effectively design and optimize systems to meet your requirements.

Our Test System Design services ensure accurate and reliable testing for your aerospace and defense systems. Additionally, our Design Engineering expertise covers essential aspects like Flight Mechanics, Aerodynamic Analysis, Simulation and Test Systems, as well as Electrooptical Design and Manufacturing.

Our consultancy services are provided in following area:

- Defence Contracts Management and Localization
- Design and Design Review / Analysis Support:
 - Unmanned Air Vehicle Systems Design and review
 - Electrooptical Systems Design and Manufacturing
 - Simulation and Training Systems
 - Performance Optimization
 - Electronic and PCB Design
- System Engineering for aerospace and defence projects
- Business and Strategy Development
- Proposal Management and Preparation
- New Product Implementation
- Defence Programs Integrated Logistic Support Consultancy
- Integrated Logistic Support Planning, analysis, documentation
- Quality Engineering
- Test system design and data collection
- Subcontract Management (find new subcontractors and manage them)

12. REFERENCES

Customer	Expertise
GAMI	Saudi Arabia Defence Authority
INTRA Defence Technologies	Unmanned Air Systems and Military Systems
Encode Technologies - Pakistan	Consultancy Services
G7 Aerospace - Malaysia	Training Technologies
BARCO - Belgium	Projector Systems
ANDAR	Electromechanical Systems
ASELSAN	Aerospace and Defence
ROKETSAN	Missile and Ballistic Systems
ODTU TSSK	Aerospace Cluster
ATEL SAVUNMA	EW Systems
ROVENMA	IOT Systems and Software
MILMAST	Military Mast and Weapon Systems
LUPPE	ERP Software Systems
METEKSAN	Defence Systems
ALTAY SOFTWARE	Software and Defence Equipment
BPM BATTERY SYSTEMS	Battery Systems

SDT SPACE AND DEFENCE	Aerospace and Defence
SIMBT	Simulation Systems
YEPSAN Savunma	Aerospace Manufacturing
AELSAN KONYA	Weapon Systems
TAI	Aerospace Systems