

BNBC in 3 Volumes

Volume 1

- **Part 1:** SCOPE AND DEFINITION
- **Part 2:** ADMINISTRATION AND ENFORCEMENT
- **Part 3:** GENERAL BUILDING REQUIREMENTS, CONTROL AND REGULATION
- **Part 4:** FIRE PROTECTION
- **Part 5:** BUILDING MATERIALS

Volume 2

- **Part 6:** STRUCTURAL DESIGN

Volume 3

- **Part 7:** CONSTRUCTION PRACTICES AND SAFETY
- **Part 8:** BUILDING SERVICES
- **Part 9:** ADDITION, ALTERATION TO AND CHANGE OF USE OF EXISTING BUILDINGS
- **Part 10:** SIGNS AND OUT-DOOR DISPLAY

Part 4: Fire Protection

- Chapter 1: General Provisions
- Chapter 2: Precautionary Requirements
- Chapter 3: Means of Egress
- Chapter 4: Equipment and In-built Facilities Standards
- Chapter 5: Specific Requirements for Fire Detection and Extinguishing System

Part 8: Building Services

- Chapter 1: Electrical and Electronic Engineering Services for Buildings
- Chapter 2: Air-conditioning, Heating and Ventilation
- Chapter 3: Building Acoustics
- Chapter 4: Lifts, Escalators and Moving Walks
- Chapter 5: Water Supply
- Chapter 6: Sanitary Drainage
- Chapter 7: Rainwater Management
- Chapter 8: Fuel Gas Supply

Topics of Electrical Building Services

- Lighting
- Load estimation
- Fittings, fixtures and accessories
- Wiring
- Substation and transformer
- Distribution system
- Switch and switchboards
- Overcurrent and short-circuit protection
- Fire detection, alarm and emergency lighting
- Earthing
- Lightning protection
- Telecommunication
- CCTV and access control system

Topics of HVAC

- Planning
- Air-conditioning system design
- Air distribution system
- Air-conditioning equipment
- Refrigerating equipment
- Ventilation systems
- Energy conservation
- Inspection, testing and commissioning
- Operation and maintenance

Topics of Acoustics

- Classification
- Planning
- Design
- Speech privacy
- Sound amplification system

Topics of Lifts and Escalators

- Safety considerations
- Design considerations
- Escalators
- Moving walks
- Energy conservation
- Inspection and certification
- Operation and maintenance

Topics of Water Supply

- Permit
- Licensing of plumbers
- Water supply requirements
- Estimation of demand load
- Water sources and quality
- Inspection and certification
- Water supply system
- Storage of water
- Design of distribution system
- Water distribution in tall buildings
- Hot water supply installation
- Pipe work
- Cleaning and disinfection

Topics of Sanitary Drainage

- Planning
- Licensing of plumbers
- Drainage and sanitation requirements
- Materials and appliances
- Design considerations
- Refuse chute system
- Basement floor drainage system
- Healthcare drainage system
- Inspection, testing and completion certificate
- Guide to maintenance

Topics of Rainwater Management

- Rainwater harvesting requirements
- Rainwater harvesting planning
- Licensing of plumber
- Rooftop rainwater harvesting
- Artificial groundwater recharge
- Drainage and sanitation requirement
- Materials and appliances
- Construction
- Inspection, testing and completion certificate
- Guide to maintenance

Topics of Fuel and Gas Supply

- Gas piping installation
- Use of LPG
- Installation of appliances