



## SYLLABUS

### ITI Health Sanitary Inspector Syllabus (Two-Year Course)

#### 1st Semester

#### Unit 1: Foundational Skills

##### 1. Professional Knowledge (Theory)

###### ○ Communication Skills

- Basics of effective communication
- Verbal and non-verbal communication
- Communication in a healthcare setting
- Barriers to effective communication
- Techniques for overcoming communication barriers
- The role of communication in patient care and public health

###### ○ Entrepreneurship Skills

- Introduction to entrepreneurship
- Importance of entrepreneurship in public health
- Basic principles of starting and managing a business
- Identifying business opportunities in the health sector
- Financial planning and management for small businesses
- Marketing strategies for health-related businesses
- Case studies of successful health entrepreneurs

##### 2. Professional Skills (Practical)

###### ○ Communication Skills

- Practical exercises in effective communication
- Role-playing scenarios in healthcare communication
- Assessing and improving communication skills
- Writing and presenting health reports
- Conducting public health awareness campaigns
- Team collaboration exercises

###### ○ Entrepreneurship Skills

- Practical exercises in business planning
- Case studies of successful health-related businesses
- Hands-on projects for developing entrepreneurial skills
- Creating business proposals for health services
- Simulating business negotiations and client interactions
- Financial analysis and budgeting exercises

#### Unit 2: Safety and Health

## 1. Professional Knowledge (Theory)

### ○ Occupational Safety, Health, and Environment

- Basics of occupational safety and health
- Environmental health and safety regulations
- Importance of safety in healthcare settings
- Risk assessment and hazard identification
- Safety management systems
- Emergency response planning
- Case studies of occupational health incidents

## 2. Professional Skills (Practical)

### ○ Occupational Safety, Health, and Environment

- Practical exercises in safety protocols
- Identifying and mitigating health hazards
- Conducting safety audits and inspections
- Developing and implementing safety training programs
- Simulating emergency response scenarios
- Personal protective equipment (PPE) usage and maintenance

## Unit 3: Technical Skills

## 1. Professional Knowledge (Theory)

### ○ Engineering Drawing

- Basics of engineering drawing
- Importance of technical drawings in public health
- Reading and interpreting engineering drawings
- Symbols and notations used in engineering drawings
- Techniques for creating accurate and detailed drawings
- Application of engineering drawings in sanitation projects

## 2. Professional Skills (Practical)

### ○ Engineering Drawing

- Practical exercises in creating engineering drawings
- Hands-on practice with drawing tools and software
- Application of engineering drawings in health inspections
- Creating blueprints for sanitation facilities
- Drafting layouts for public health infrastructure
- Using CAD software for technical drawings

## Unit 4: Mathematics and Public Health

## 1. Professional Knowledge (Theory)

### ○ Basic Mathematics

- Fundamentals of mathematics
- Application of mathematics in public health
- Problem-solving techniques in a health context
- Statistical methods for health data analysis
- Calculations for dosing and medication administration
- Use of mathematical models in epidemiology

### ○ Public Health

- Introduction to public health
- Principles of public health and hygiene

- Role of health sanitary inspectors in public health
- Disease prevention and control strategies
- Public health policies and regulations
- Health promotion and education
- Community health needs assessment

## 2. Professional Skills (Practical)

- **Basic Mathematics**
  - Practical exercises in mathematical problem-solving
  - Application of mathematical concepts in health inspections
  - Calculating health indicators and statistics
  - Analyzing health data for trends and patterns
  - Preparing mathematical reports for public health planning
- **Public Health**
  - Practical exercises in public health assessment
  - Conducting public health surveys and inspections
  - Hands-on projects in public health improvement
  - Designing and implementing health promotion campaigns
  - Evaluating the effectiveness of public health interventions
  - Community outreach and education activities

## 2nd Semester

### Unit 5: Food Science

#### 1. Professional Knowledge (Theory)

- **Food Science**
  - Basics of food science and nutrition
  - Food safety and hygiene
  - Role of health sanitary inspectors in food safety
  - Foodborne diseases and their prevention
  - Food preservation techniques
  - Regulations and standards for food safety
  - Nutritional requirements and dietary guidelines

#### 2. Professional Skills (Practical)

- **Food Science**
  - Practical exercises in food safety inspections
  - Assessing food quality and hygiene
  - Hands-on projects in food safety improvement
  - Conducting food sampling and analysis
  - Inspecting food production and processing facilities
  - Implementing food safety management systems
  - Educating the public on food safety practices

## 3rd Semester

### Unit 6: Environmental and Legal Studies

#### 1. Professional Knowledge (Theory)

- **Environmental Studies**
  - Basics of environmental science

- Environmental health and its impact on public health
  - Techniques for environmental health assessment
  - Pollution control and waste management
  - Sustainable development and environmental protection
  - Environmental laws and regulations
  - Case studies of environmental health issues
  - **Local Laws and Administration**
    - Introduction to local laws and regulations
    - Role of health sanitary inspectors in law enforcement
    - Understanding administrative procedures in public health
    - Legal aspects of public health inspections
    - Compliance with health and safety standards
    - Administrative structures in public health governance
- 2. Professional Skills (Practical)**
- **Environmental Studies**
    - Practical exercises in environmental health assessment
    - Conducting environmental impact assessments
    - Monitoring and controlling pollution levels
    - Waste management practices and techniques
    - Environmental health education and advocacy
  - **Local Laws and Administration**
    - Practical exercises in applying local health laws
    - Case studies of legal health interventions
    - Hands-on projects in community health law enforcement
    - Developing and enforcing health regulations
    - Coordinating with local authorities for public health initiatives
    - Legal documentation and reporting

**4th Semester**

## **Unit 7: Biology and Community Health Management**

- 1. Professional Knowledge (Theory)**
- **Elementary Biology**
    - Basics of biology and human anatomy
    - Importance of biology in public health
    - Understanding common health issues and diseases
    - Human body systems and their functions
    - Pathogens and the immune system
    - Genetic factors in health and disease
    - Laboratory techniques in biology
  - **Management of Community Health**
    - Principles of community health management
    - Techniques for managing community health programs
    - Role of health sanitary inspectors in community health
    - Health program planning and evaluation
    - Community health needs assessment
    - Health education and promotion strategies
    - Collaboration with community organizations
- 2. Professional Skills (Practical)**

- **Elementary Biology**
  - Practical exercises in biological laboratory techniques
  - Identifying and studying pathogens
  - Conducting health screenings and assessments
  - Analyzing biological samples for public health
  - Educational activities on biological health topics
- **Management of Community Health**
  - Practical exercises in community health management
  - Conducting community health assessments
  - Hands-on projects in improving community health
  - Designing and implementing health programs
  - Evaluating the impact of health interventions
  - Community engagement and partnership building

