



IPAC for Construction

Full Course

Syllabus

Module 1 - Background

Overview:

In this course, you will learn essential infection prevention and control (IPAC) practices critical to maintaining patient safety during construction activities within healthcare facilities. Construction in healthcare environments presents unique risks, and effective IPAC measures are vital to preventing severe health outcomes.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the risks construction poses in healthcare settings.
2. Identify key standards and guidelines for infection control.
3. Recognize the roles of infection control professionals and constructors.
4. Recognize the steps to implement infection control measures effectively.

Module Outline

1. Introduction to Construction Risks in Healthcare Settings
2. Infection Risks Associated with Construction
3. Standards, Guidelines, and Regulatory Bodies
4. Core IPAC Practices for Construction Sites
5. Roles and Responsibilities

Module 2 - General IPAC Measures

Overview: In this module, you will learn how routine precautions like hand hygiene, PPE use, and respiratory etiquette help prevent infections in healthcare settings. You'll also explore when additional precautions are needed to keep patients, staff, and visitors safe.

Learning Objectives:

By the end of this module, learners will be able to:

1. Explain the importance of routine precautions in healthcare settings.
2. Identify and use the appropriate facilities and procedures for hand hygiene.
3. Identify the different types of personal protective equipment (PPE) and describe their specific uses.
4. Recognize the appropriate isolation precautions based on the type of infection.

Module Outline

1. The Precautionary Principle
2. Routine Precautions
3. Hand Hygiene
4. Respiratory Etiquette
5. Personal Protective Equipment (PPE)
6. Isolation (Additional) Precautions

Module 3 - Overview of IPAC in Construction

Overview: In this course, you will explore essential Infection Prevention and Control (IPAC) practices tailored specifically for construction projects. We'll guide you through each phase—planning, working, and commissioning—and show you how IPAC measures are critical to ensuring safety and preventing infections.

Learning Objectives:

By the end of this module, learners will be able to:

1. Define the three main phases of construction in relation to Infection Prevention and Control (IPAC) measures.
2. Explain the role of IPAC during the different phases of construction, renovation, and maintenance activities.
3. Identify and follow the necessary IPAC measures during the working phase of a construction project.
4. Recognize the effectiveness of IPAC measures during the commissioning phase

Module Outline

1. Why IPAC in Construction Matters
2. The Three Phases of Construction
3. Six Main Steps of IPAC in Construction
4. Planning Phase
5. Working Phase
6. Commissioning Phase

Module 4 - Infection Control Risk Assessment (ICRA)

Overview: In this module, you'll learn about the importance of infection control during construction projects, how to identify and mitigate risks, implement key control measures, and follow essential IPAC protocols and standards. You'll also understand the critical need for collaboration between construction teams and IPAC professionals to maintain a safe environment for all occupants.

Learning Objectives:

By the end of this module, learners will be able to:

1. Explain the purpose and components of an Infection Control Risk Assessment (ICRA) in healthcare construction.
2. Identify and classify populations based on risk groups in healthcare construction projects.
3. Differentiate between construction activity types and their associated risks in a healthcare environment.
4. Identify how to analyze and recommend preventive measures based on the Preventive Measure Analysis (PMA) matrix.

Module Outline

1. Understanding the Work and Population Impact
2. What is an Infection Control Risk Assessment (ICRA)?
3. Population Risk Groups
4. Construction Activity Types
5. Preventive Measure Analysis (PMA)
6. Special Considerations: Mould and Asbestos

Module 5 - Case Scenarios

Overview: In this module, you'll learn about the importance of infection control during construction projects, how to identify and mitigate risks, implement key control measures, and follow essential IPAC protocols and standards. You'll also understand the critical need for collaboration between construction teams and IPAC professionals to maintain a safe environment for all occupants.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the population risk group and construction activity type for various case scenarios.
2. Interpret the Population Risk Group and Construction Activity Type matrix to determine the required preventive measures
3. Recall and describe preventive measures appropriate for different case scenarios.
4. Summarize the Infection Control Risk Assessment (ICRA) process for construction activities in healthcare settings.

Module Outline:

1. Case Scenario 1: Hospital Cabling Project
2. Case Scenario 2: Physician's Clinic Renovation
3. Case Scenario 3: Minor Repairs in Long-Term Care Home

Module 6 - Infection Control Risk Assessment – Part 2

Overview: In this module, you'll learn about the importance of infection control during construction projects, how to identify and mitigate risks, implement key control measures, and follow essential IPAC protocols and standards. You'll also understand the critical need for collaboration between construction teams and IPAC professionals to maintain a safe environment for all occupants.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the key components of the Preventive Measures Analysis (PMA) matrix
2. Describe common issues and considerations that can affect construction projects in healthcare settings.
3. Recognize preventive measures to mitigate the impact of construction activities on patient care and hospital operations.
4. Determine the role of the Infection Control Risk Assessment (ICRA) and how it can be adjusted in response to changes in the construction project.

Module Outline:

1. Planning for Common Challenges
2. The Preventive Measures Analysis (PMA) Matrix
3. General Principles of Preventive Measures
4. Preventive Measures I (PM I)
5. Preventive Measures II (PM II)

6. Preventive Measures III (PM III)
7. Preventive Measures IV (PM IV)

Module 7 - The Multidisciplinary Team (MDT)

Overview: In this module, learners will explore the importance of multidisciplinary teams (MDTs) in ensuring the success of construction projects, particularly in healthcare settings. The module will cover the different types of MDTs, key members involved, and their specific roles and responsibilities. It will also highlight the critical role of the constructor within the MDT, emphasizing collaboration and communication to achieve project goals.

Learning Objectives:

By the end of this module, learners will be able to:

1. Explain the significance of Multidisciplinary Teams
2. Differentiate between various types of Multidisciplinary Teams
3. Identify key members of the MDT and describe their roles and responsibilities
4. Recognize the specific responsibilities of the Constructor within the MDT

Module Outline:

1. Introduction to the Multidisciplinary Team (MDT)
2. Main Roles of the MDT
3. Types of Multidisciplinary Teams
4. Key Members of the MDT
5. Additional MDT Members
6. The Role of the Constructor in the MDT

Module 8 - Advanced Case Scenarios

Overview: In this module, learners will apply their knowledge to real-world case scenarios to better understand how to assess risks and implement preventive measures during construction activities in healthcare settings. Through the analysis of different case scenarios, learners will explore how to interpret risk matrices, identify the appropriate

population risk group, and determine the necessary infection control strategies to ensure safety.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the population risk group and construction activity type for various case scenarios.
2. Interpret the Population Risk Group and Construction Activity Type matrix to determine the required preventive measures
3. Recall and describe preventive measures appropriate for different case scenarios.
4. Summarize the Infection Control Risk Assessment (ICRA) process for construction activities in healthcare settings.

Module Outline:

1. Case Scenario 1: ICU Call Bell System Upgrade
2. Case Scenario 2: Waiting Room Renovation
3. Case Scenario 3: Dialysis Facility Air Handling Unit Installation

Module 9 - Environmental Cleaning

Overview: In this module, learners will focus on the essential cleaning procedures required to maintain a safe and hygienic environment during and after construction activities. The module will cover the different stages of cleaning, from ongoing cleaning inside active construction zones to final and terminal cleaning processes, ensuring that all areas meet safety and cleanliness standards.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the necessary cleaning procedures and precautions for maintaining cleanliness inside active construction areas
2. Explain the steps involved in conducting different stages of cleaning a construction area

Module Outline:

1. Importance of Environmental Cleaning

2. Cleaning Inside the Construction Zone
3. Cleaning Outside the Construction Zone
4. Final Construction Clean
5. Terminal Clean

Module 10 - Special Considerations: Risk Group 4

Overview: In this module, learners will focus on the specific health risks and considerations when working in environments housing patients classified under risk group 4. These individuals are particularly vulnerable to infections due to compromised immune systems. The module will cover the unique conditions and vulnerabilities of these patients, the potential hazards posed by construction activities, and the containment measures needed to protect both patients and workers.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the specific health conditions and vulnerabilities of patients classified under risk group 4
2. Explain the potential hazards posed by construction activities to risk group 4
3. Recognize the use of appropriate containment measures to mitigate the risk of infections when working in or near risk group 4 areas

Module Outline:

1. Understanding Risk Group 4
2. Population Risk Groups Overview
3. Working in the Intensive Care Unit (ICU)
4. Working in Dialysis Facilities
5. Burn Care Units
6. Cancer Units

Module 11 - Special Considerations: Long-Term Care

Overview: In this module, learners will explore the unique challenges and considerations involved in construction and renovations within long-term care (LTC) facilities. The focus will

be on maintaining a safe, supportive, and home-like environment while addressing the complex needs of residents. Learners will gain insight into the various types of LTC facilities, the medical conditions of residents, and the regulatory requirements that govern the operations of these facilities.

Learning Objectives:

By the end of this module, learners will be able to:

1. Recognize the different types of long-term care facilities
2. Identify the medical conditions of long-term care home residents
3. Identify the general requirements of residents and the regulatory requirements of long-term care facilities

Module Outline:

1. Introduction to Long-Term Care Facilities
2. Types of Long-Term Care Facilities
3. Maintaining a Home-Like Environment During Construction
4. Addressing Complex Medical Needs
5. Providing Appropriate Behavioural Support
6. Supporting Families and Visitors
7. Regulatory and Compliance Requirements

Module 12 - Special Considerations: Mould & Asbestos

Overview: In this module, we will focus on the essential safety practices for managing asbestos and mould in construction environments. Learners will gain critical knowledge of the risks associated with these contaminants, and the necessary protocols to minimize exposure and protect workers and surrounding areas.

Learning Objectives:

By the end of this module, learners will be able to:

1. Identify the key risks and hazards associated with mould and asbestos in construction environments.
2. Recognize various environmental assessments and their importance.
3. Describe the appropriate Personal Protective Equipment (PPE) required for safely handling mould and asbestos.

4. Explain the role of barriers and hoarding.
5. Identify effective environmental cleaning procedures.

Module Outline:

1. Introduction to Asbestos and Mould in Construction
2. Environmental Assessment for Asbestos and Mould
3. Personal Protective Equipment (PPE)
4. Barriers and Hoarding in Containment
5. Environmental Cleaning and Waste Disposal
6. Key Safety Practices and Compliance

