



Model Curriculum

MCr Name: Basic Infection Control at Healthcare Setup

MCr Code: HSS/MCr-0001

NSQF Level: 3

Model Curriculum Version: 1.0

Healthcare Sector Skill Council || Healthcare Sector Skill Council, 520, DLF Tower A, 5th Floor, Jasola
District Centre, New Delhi – 110025

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Training Parameters

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|---------------------------------------------------------|---------------------------------------------------|
| Sector | Healthcare |
| Sub-Sector | Allied Health and Paramedics |
| Occupation | |
| Country | India |
| NSQF Level | 3 |
| Aligned to NCO/ISCO/ISIC Code | NCO-2015/NIL |
| Minimum Educational Qualification and Experience | 10th Grade Pass and working in healthcare setting |
| Pre-Requisite License or Training | Not Applicable |
| Minimum Job Entry Age | 18 Years |
| Last Reviewed On | 31/01/2024 |
| Next Review Date | 31/01/2027 |
| NSQC Approval Date | 31/01/2024 |
| QP Version | 1.0 |
| Model Curriculum Creation Date | 31/01/2024 |
| Model Curriculum Valid Up to Date | 31/01/2027 |
| Model Curriculum Version | 1.0 |
| Minimum Duration of the Course | 15 Hrs. |
| Maximum Duration of the Course | 15 Hrs. |

Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Follow infection control and sanitization policies and procedures at workplace.
- Segregate and dispose of waste disposal according to the SOPs

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

| NOS and Module Details | Theory Duration | Practical Duration | On-the-Job Training Duration (Mandatory) | On-the-Job Training Duration (Recommended) | Total Duration |
|-----------------------------------------------------------------------------|-----------------|--------------------|------------------------------------------|--------------------------------------------|----------------|
| Comply with infection control and biomedical waste disposal policies | 07:30 | 07:30 | 00:00 | 00:00 | 15:00 |
| Module 1: Infection control practices and waste management | 07:30 | 07:30 | 00:00 | 00:00 | 15:00 |

Module Details

Module 1: Infection control practices and waste management

Terminal Outcomes:

- Develop techniques of self-hygiene.
- Apply infection control policies and procedures during daily activities.
- Dispose different types of waste appropriately.
- Apply local guidelines of biomedical waste disposal system during daily activities.

| Duration: 07:30 | Duration: 07:30 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Theory – Key Learning Outcomes | Practical – Key Learning Outcomes |
| <ul style="list-style-type: none"> • Discuss the concept of disease outbreak, epidemics, and pandemics and their impact on society at large. • List various surfaces that may serve as possible fomites at workplace. • Discuss the significance of conforming to basic hygiene practices such as washing hands, using alcohol hand sanitizers. • Identify PPE to be used at workplace and the process of using them. • Differentiate between self-quarantine and self-isolation. • Discuss the significance of social distancing and the ways to maintain it. • Discuss the importance and process of identifying and reporting symptoms to the concerned authorities. • Discuss Hospital Acquired Infection. • Explain about Hospital Acquired Infection care bundle. • Distinguish between sterilization and Disinfection. • Explain the process of sterilization and disinfection techniques of area, equipments, and tools. • Explain the significance of following prescribed rules and guidelines during an epidemic or a pandemic. • Discuss organizational hygiene and sanitation guidelines and ways of reporting breaches/gaps if any. • Discuss alternate ways of carrying out different tasks in everyday life (use of e-payment gateways/online learning/virtual meetings, etc.). • Explain the process of examining the office supplies/ deliveries and their subsequent sanitization. • Explain the entry procedures to be followed by all visitors. | <ul style="list-style-type: none"> • Show how to sanitize and disinfect one's work area regularly. • Demonstrate the correct way of washing hands using soap and water. • Demonstrate the correct way of sanitizing hands using alcohol-based hand rubs. • Display the correct way of wearing and removing PPE such as face masks, hand gloves, face shields, PPE suits, etc. • Demonstrate appropriate social and behavioural etiquette (greeting and meeting people, spitting/coughing/sneezing, etc.). • Demonstrate the process carrying out daily briefing of the staff on topics like safety measures, thermal screening, evacuation process, regular hand wash, social distancing protocol. • Prepare a list of relevant hotline/emergency numbers. • Segregate the waste applying the standard guidelines. • Create a chart depicting different types of waste and various types of colour coded bins/containers used for disposal of waste. • Prepare a report on the observations from field assignment about the structure of transportation and treatment of waste. |

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| <ul style="list-style-type: none"> • Maintain a log of names and contact details of every person that visits the workplace. • Maintain daily checklist of equipment like infra-red thermometers, hand sanitizers placed at entry point, pantry area and meeting rooms etc. • Discuss the importance of identifying and reporting symptoms to the concerned authorities. • Categorize the different types of waste and the types of colour codes used to segregate them. • Explain the importance and mechanism of proper and safe disposal, transportation, and treatment of waste. • Discuss the ways of dealing with stress and anxiety during a disease outbreak. • Explain the importance of immunization against infection prevention or life threatening diseases like HIV and Hepatitis B, C etc | |
| <p>Classroom Aids:</p> | |
| <p>Charts, Models, Video presentation, Flip Chart, White-Board/Smart Board, Marker, Duster</p> | |
| <p>Tools, Equipment and Other Requirements</p> | |
| <p>Hypochlorite solution, chlorhexidine, alcohol swab Apron, lab coat, gloves, mask, cap, shoes, safety goggles and spectacles, towels, cotton, isopropyl alcohol Disposable cartridge and syringes, Spill Kit, Different color coded bins, chart for color coding of bins.</p> | |

Annexure

Trainer Requirements

| Trainer Prerequisites | | | | | | |
|-----------------------------------|-------------------------------------------------|-------------------------------------|----------------|---------------------|----------------|---------|
| Minimum Educational Qualification | Specialization | Relevant Industry Experience | | Training Experience | | Remarks |
| | | Years | Specialization | Years | Specialization | |
| Medical Graduate | MBBS/BAMS/BHMS | 0 | | | | |
| Nursing | B.Sc. (Nursing)/ Post Basic B.Sc. Nursing | 1 year of clinical experience | | | | |
| GNM | General Nursing Midwifery | 2 year of clinical experience | | | | |
| | | | | | | |

| Trainer Certification | |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Domain Certification | Platform Certification |
| Certified for HSS/MCr-0001 v1.0 with minimum score of 80%. | Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "MEP/Q2601" with minimum score of 80%. |

| Assessor Prerequisites | | | | | | |
|-----------------------------------|----------------------------------------------|-------------------------------|----------------|--------------------------------|----------------|---------|
| Minimum Educational Qualification | Specialization | Relevant Industry Experience | | Training/Assessment Experience | | Remarks |
| | | Years | Specialization | Years | Specialization | |
| Medical Graduate | MBBS/BAMS/BHMS | 1 year of clinical experience | | | | |
| Nursing | B.Sc. (Nursing)/ Post Basic B.Sc. Nursing | 3 year of clinical experience | | | | |
| GNM | General Nursing Midwifery | 4 year of clinical experience | | | | |

| Assessor Certification | |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Domain Certification | Platform Certification |
| Certified for HSS/MCr-0001 v1.0 with minimum score of 80%. | Recommended that the Trainer is certified for the Job Role: "Assessor", mapped to the Qualification Pack: "MEP/Q2701" with minimum score of 80%. |

Assessment Strategy

The emphasis is on 'learning-by-doing' and practical demonstration of skills and knowledge based on the performance criteria. Accordingly, assessment criteria for each job role is set and made available in qualification pack.

The assessment papers for both theory and practical would be developed by Subject Matter Experts (SME) hired by Healthcare Sector Skill Council or with the HSSC accredited Assessment Agency as per the assessment criteria mentioned in the Qualification Pack. The assessments papers would also be checked for the various outcome based parameters such as quality, time taken, precision, tools and equipment requirement etc.

Each NOS in the Qualification Pack (QP) is assigned a relative weightage for assessment based on the criticality of the NOS. Therein each Element/Performance Criteria in the NOS is assigned marks on relative importance, criticality of function and training infrastructure.

The following tools would be used for final assessment:

1. Practical Assessment: This comprises of a creation of mock environment in the skill lab which is equipped with all equipment required for the qualification pack.

Candidate's soft skills, communication, aptitude, safety consciousness, quality consciousness etc. is ascertained by observation and marked in observation checklist. The outcome is measured against the specified dimensions and standards to gauge the level of their skill achievements.

2. Viva/Structured Interview: This tool is used to assess the conceptual understanding and the behavioral aspects with regard to the job role and the specific task at hand. It also includes questions on safety, quality, environment and equipment etc.

3. On-Job Training: OJT would be evaluated based on standard log book capturing departments worked on, key observations of learner, feedback and remarks of supervisor or mentor.

4. Written Test: Question paper consisting of 100 MCQs (Hard:40, Medium:30 and Easy: 30) with questions from each element of each NOS. The written assessment paper is comprised of following types of questions:

- i. True / False Statements
- ii. Multiple Choice Questions
- iii. Matching Type Questions.
- iv. Fill in the blanks
- v. Scenario based Questions
- vi. Identification Questions

QA Regarding Assessors:

Assessors are selected as per the "eligibility criteria" laid down by HSSC for assessing each job role. The assessors selected by Assessment Agencies are scrutinized and made to undergo training and introduction to HSSC Assessment Framework, competency based assessments, assessors guide etc. HSSC conducts "Training of Assessors" program from time to time for each job role and sensitize assessors regarding assessment process and strategy which is outlined on following mandatory parameters:

- 1) Guidance regarding NSQF
- 2) Qualification Pack Structure
- 3) Guidance for the assessor to conduct theory, practical and viva assessments
- 4) Guidance for trainees to be given by assessor before the start of the assessments.
- 5) Guidance on assessments process, practical brief with steps of operations practical observation checklist and mark sheet
- 6) Viva guidance for uniformity and consistency across the batch.
- 7) Mock assessments
- 8) Sample question paper and practical demonstration

References

Glossary

| Term | Description |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Declarative Knowledge | Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem. |
| Key Learning Outcome | Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application). |
| OJT (M) | On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on site |
| OJT (R) | On-the-job training (Recommended); trainees are recommended the specified hours of training on site |
| Procedural Knowledge | Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills. |
| Training Outcome | Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training . |
| Terminal Outcome | Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module . A set of terminal outcomes help to achieve the training outcome. |

Acronyms and Abbreviations

| Term | Description |
|------|-----------------------------------------|
| QP | Qualification Pack |
| NSQF | National Skills Qualification Framework |
| NSQC | National Skills Qualification Committee |
| NOS | National Occupational Standards |
| BMW | Biomedical Waste |
| PPE | Personal Protective Equipment |