



CCEK – NSQF ALIGNED PROGRAM

COURSE SYLLABUS

FOR

Biomedical Waste Management- Nursing and Paramedical Staff

CCEK - NATIONAL SKILL DEVELOPMENT TRAINING PROGRAM

Biomedical Waste Management-Nursing and Paramedical Staff

CCEK – NSDC course package covers the following Qualification Packs and leads to the following NSDC certifications. The students who successfully completed the course programs are entitled to get NSDC certification after undergoing the assessment process of NSDC as per the rules and regulations stipulated by NSDC from time to time.

SL. NO.	QUALIFICATIONS PACK	QUALIFICATIONS PACK CODE	NSQF LEVEL
1	<p><u>Biomedical Waste Management-Nursing and Paramedical Staff</u></p> <p>Brief Job Description:</p> <p>This qualification is designed to play a crucial role in biomedical waste management by ensuring the safe handling, segregation, transportation, and disposal of waste in compliance with regulations. Their commitment to these practices is essential for maintaining a safe and healthy healthcare environment. The purpose of this qualification in biomedical waste management for nurses is essential for safeguarding patient and staff health, complying with regulations, protecting the environment, and ensuring the efficient and responsible management of biomedical waste in healthcare settings. It enhances overall healthcare quality and safety.</p>	SGJ/MCr-0002	4.5

COURSE DETAILS

Biomedical Waste Management-Nursing and Paramedical Staff

EXAMINATION DETAILS

COURSE NAME	COURSE CODE	ELIGIBILITY	DURATION
Biomedical Waste Management-Nursing and Paramedical Staff	G48	Diploma Completed 1st year of 3-year/ 4-years UG	30

SL. NO.	EXAM	EXAM CODE	MAXIMUM MARK	INTERNAL	TOTAL MARK
THEORY PAPERS					
1	Introduction to Biomedical Waste Management	T001	100	50	150
PRACTICAL PAPERS					
1	Personal Protective Equipment (PPE) Usage and Safety Protocols	L001	100	50	150
TOTAL MARKS					
1	Total Examination Marks (Theory Online + Practical Examination)				200
2	Total Internal Marks				100
3	Total Marks (Total Internal Marks + Total Examination Marks)				300

Renewable Energy

INTERNAL MARK CRITERIA FOR EACH

SL NO.	MODULE	MODULE CODE	MAXIMUM MARK	INTERNAL MARK	TOTAL MARK
1	Introduction to Biomedical Waste Management	T001	100	50	150
2	Personal Protective Equipment (PPE) Usage and Safety Protocols	L001	100	50	150
	TOTAL		200	100	300

ATTENDANCE	GENERAL PERFORMANCE	INTERNAL EXAMINATIONS/ PROJECTS/ ASSIGNMENTS	TOTAL MARKS
5	5	40	50

COURSE SYLLABUS

FOR

**Biomedical Waste Management - Nursing and
Paramedical Staff**

COURSE	Biomedical Waste Management-Nursing and Paramedical Staff	
TOTAL MARKS	Mark: 300	Internal Mark: 100
TOTAL HOURS	30 Hrs	

DEFENITION OF CREDIT

1 Credit	15Hrs Theory/ 30Hrs Practical
Skill Components	60 – 70 % of Total Credit

MODULES INCLUDED IN THIS SUBJECT

SL NO	MODULE NAME	CREDIT BREAKUP
1	Module 1: Introduction to Biological Waste Management	1
2	Module 2: Classification of Biomedical Waste	
3	Module 3: Segregation and Collection of Biomedical waste	
4	Module 4: Process of Software Development	
5	Module 5: Treatment and Disposal of Biomedical waste	
6	Module 6: Health and Safety in Biomedical Waste Management	
7	Module 7: Best Practices in Biomedical Waste Management	
	Total	1

Training Outcomes

- Discuss about the Biomedical waste.
- Discuss about classification of Biomedical waste.
- Understand about Segregation and Collection of Biomedical Waste. Outcome 4:
Discuss about storage and transportation of biomedical waste.
- Discuss about Treatment and disposal of biomedical waste.
- Discuss about Health and Safety precautions to be taken while handling biomedical waste.
- Understanding Best Practices in biomedical waste Management.

MODULES

Module 1: Introduction to Biological Waste Management

THEORY

- Define Biomedical waste.
- Discuss the reasons why proper biomedical waste management is crucial in healthcare facilities.
- Explain how nurses' actions can contribute to a safer healthcare environment and improved patient care.
- Understanding the risk associated with improper biomedical waste management.

Module 2: Classification of Biomedical Waste

THEORY

- Discuss about Categories of biomedical waste (infectious, hazardous, radioactive, etc.).
- Explain the potential health risks associated with each category of waste.
- Discuss about characteristic of each type of waste.
- Discuss about the importance of correct classification of biomedical waste.
- Discuss the importance of labelling waste containers correctly.
- Explain the color-coding system for biomedical waste containers.
- Discuss the significance of consistent colour coding
- Introduce relevant regulations and guidelines (e.g., BMW Rules 2016)

PRACTICAL

- Show pictures and videos of colour coding of each category of waste.
- Demonstrate Biomedical waste through pictures and videos.
- Provide an overview of BMWM Rules 2016.

Module 3: Segregation and Collection of Biomedical waste

THEORY

- Emphasize the importance of separating different categories of waste.
- Discuss the selection of appropriate containers for collecting different types of biomedical waste, considering factors such as size, material, and leak-proof design.
- Discuss about proper placement of containers.

- Describe the safe handling and collection of radiological waste, including the use of lead-lined containers.
- Explain procedures for collecting and packaging infectious waste, including the use of biohazard bags and labels.

PRACTICAL

- Show how to identify different types of biomedical waste, including sharps, infectious waste, pharmaceutical waste, and hazardous waste
- Show how to segregate waste at the point of generation.
- Demonstrate safe handling practices when collecting biomedical waste, including the use of personal protective equipment (PPE), hand hygiene, and avoiding contamination.
- Demonstrate how to label waste containers accurately.
- Show how to safely collect and dispose of sharps waste, including the use of puncture-resistant containers and techniques for preventing needlestick injuries.

Module 4: Storage and Transportation of Biomedical waste

THEORY

- Discuss about Safe storage practices and areas for storing Biomedical wastes.
- Discuss about Packaging and labelling Requirement of Biomedical waste.
- Discuss about Guidelines for transportation of biomedical waste to treatment facilities.
- Explain Safe practices for transporting biomedical waste to the treatment facility.
- Explain about Proper labeling and sealing of storage containers.
- Discuss about importance of avoiding overfilling and contamination.

PRACTICAL

- Depict with the help of pictures and videos for safe storage of Biomedical waste.
- List out the guidelines for safe transportation of Biomedical waste.

Module 5: Treatment and Disposal of Biomedical waste

THEORY

- Discuss the various methods for treating Biomedical waste.
- Discuss the purpose and effectiveness of each method.
- Discuss various methods for disposing biomedical waste.
- Discuss the environmental impact of different treatment methods and strategies for minimizing the environmental footprint of biomedical waste management.

Module 6: Health and Safety in Biomedical Waste Management

THEORY

- Discuss about the Personnel Protective equipment's used in Biological Waste Management.
- Discuss about the importance of hand hygiene in preventing infections.
- Discuss about infection control measures.
- Explain the safe handling practices of biomedical waste.
- Discuss about Safe lifting and carrying of heavy waste containers.
- Discuss about Fire safety measures in waste storage and treatment areas.
- Discuss about Emergency response procedures in case of fires related to biomedical waste

PRACTICAL

- Showcase the complete PPEs used in biological waste management.
- Demonstrating effective handwashing techniques and the use of hand sanitizers.
- Show how to do Safe disposal of used PPE.
- Show the techniques for safely handling sharps, including needles and scalpels

Module 7: Best Practices in Biomedical Waste Management

THEORY

- Discuss ways to incorporate recycling and reuse where possible
- Discuss about Continuous improvement methods and monitoring techniques in Biomedical waste management.
- Discuss about Strategies for reducing the generation of biomedical waste.
- Suggest ways to Promote sustainability in healthcare facilities.
- Show case Hands-on demonstration of best practices in biomedical waste management.
- Share case studies of healthcare facilities that have successfully implemented best practices in biomedical waste management.