STATE COUNCIL OF MEDICAL SCIENCES ODISHA



CERTIFIED BLOOD COLLECTION ASSISTANT (CBCA)

Syllabus for Certified Blood Collection Assistant

This program is aimed at training candidates for the job of a "<u>Certified Blood Collection Assistant</u>", in the Healthcare Sector and aims at building the following key competencies amongst the learner

After completing this programme, participants will be able to:

- Organize pre-procedural requirements of sample collection such as necessary equipment and supplies etc.
- Perform sample collection following best practices
- Prepare the patient for special procedures.
- Instruct the patients in collection of other types of samples such as urine, stool, sputum, etc.
- Carry out transfer and storage of samples.
- Prepare for site visits while following visit etiquettes.
- Maintain professional behaviour with co-workers, patients and their families.
- Co-ordinate with colleagues and other people to complete work.
- Apply the health, safety and security protocols at the workplace such as effective infection control protocols to ensure the safety of self, patient and colleagues.

Sr. No	Module	Key Learning Outcomes	Equipment Required
1	Introduction to healthcare systems & laboratory Services Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00	 Describe the basic structure and function of healthcare facilities available at various levels, hospice care and clinics. Discuss various types of laboratories in the hospital. Describe the diagnostic centres and medical lab facilities at different levels (national, state and district). Discuss the relevant legal responsibilities of a phlebotomist with respect to their functions in the hospital environment. 	
2	Roles and responsibiliti es of a phlebotomist Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00	 Discuss the role and responsibilities of a phlebotomist. Discuss a phlebotomist's role in the process of quality improvement. Discuss the laboratory maintenance needs that need to be taken care of by the phlebotomist. Discuss the role of a phlebotomist in ensuring comfort and safety while drawing blood. Recall ethical behaviour at the workplace. Explain the appropriate use of laboratory related medical terminology in daily activities with colleagues, patients and family. Describe the general and specific etiquettes to be observed on the duty. Explain the importance of conservation of resources in the laboratories. 	

3	Ct	Fundain the annualisation of heady calls ticaves	0D
3	Structure and	Explain the organisation of body cells, tissues,	3D models of
	Function of	organs, organ systems, membranes and	human body and
	Human Body	glands in the human body.	accessory organs,
		Describe cell and various types of tissues.	model human
	Theory Duration	Describe different types of organ systems.	skeletal system,
	(hh:mm)	Describe different types of body fluids,	organ specimen.
	20:00	secretions and excretions.	
		 Identify different parts of the body using charts 	
	Dunatical	and models.	
	Practical	Explain the structure and functioning of human	
	Duration	body systems using charts and models.	
	(hh:mm)	Design various working models depicting	
	20:00	functioning of human body systems.	
4	Basic	Explain the basics of inorganic and organic	Slides,
•	sensitization	chemistry.	microscope, test
	to various	Describe the blood sample collection process	tube racks
	departments	in detail.	เนมบานบกจ
	of the medical	Final size that have been after a warted and	
	laboratory	Explain the basics of coagulation mechanism and tasting in brief	
		and testing in brief.	
		Describe the process of sampling of sputum, Secretary Control of the described by	
		semen, CSF and other body fluids like pleural	
	Theory Duration	fluid, pericardial fluid, peritoneal fluid, synovial	
	(hh:mm) 20:00	fluid, ascitic fluid.	
	, , , , , , , ,	 Explain the basics of histopathology. 	
		Explain the basics of cytology and	
		cytopathology.	
		 Explain the basics of microbiology (bacteria, 	
		virus, fungus and parasites).	
	Practical	Explain the basics of immunology and	
	Duration	serology.	
	(hh:mm) 25:00	Identify instruments and standard operating	
	,	procedures related to haematology laboratory.	
		Identify instruments and standard operating	
		procedures related to biochemistry laboratory.	
		Identify instruments and standard operating	
		procedures related to serology laboratory.	
		 Identify instruments and standard operating procedures related to coagulation. 	
		Identify instruments and standard operating precedures related to histography and	
		procedures related to histopathology and cytology section.	
5	Pre-procedural	Identify the different types of samples to be	sample test
	activities of	taken in the medical laboratory.	request forms,
	sample	Explain the correct process of sample	· '
	collection	handling.	test formats, slides,
		l la de lies de la	cover slips,
			tuberculin syringes,
		blood sample collection.	urine and stool
	Theory Duration	Explain the process of interpretation of the test request forms correctly.	collection containers
	(hh:mm)	request forms correctly.	
	10:00	Describe the correct method of preparing a	
	10.00	site for obtaining blood samples.	
		Describe the correct method of assisting the	
		patient before, during and after collection of	
	Practical	the blood specimen.	
	Duration	 Explain the process of sampling of sputum. 	
	(hh:mm)	Explain the process of guiding the patient for	
	25:00	collection of semen sample.	
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6.	Procedural activities of sample collection Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 25:00	 Enumerate common pre-analytical errors and complication of sample collection. Enumerate various types of blood collection devices and other equipment required such as syringe, evacuated tubes, different gauged needles etc. Classify different types of blood collection tubes with their additives. Describe the usage of tourniquet and its duration of application. Distinguish different types of tubes, types and co-relate with the type of sample to be collected such as serum, plasma, etc. Enumerate different types of needle gauges with their colour codes. Explain the cause of haemolysis and the process of preventing the same. Explain the order of draw (for the tube types). Explain the correct method of preparing an appropriate site for obtaining blood samples. Explain the correct method of drawing blood specimens from patients. Explain the correct method of preparing and labelling the blood sample for test, procedures and identification purposes. Explain the correct method of assisting the patient before, during and after collection of the blood specimen. Explain the correct method of collecting 	Phlebotomy Arm- Adult/ infant , syringe, needles of various gauges, isopropyl alcohol, tourniquet, cotto swab, gauze pieces, sample test request forms, stop watch, filter paper, tuberculin vials, swabsticks, blottingpaper for BT, capillary tube for CT test formats, slides, Lancet and Micro collection devices
7.	Post-procedural activities of sample collection Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 25:00	 Explain various standard operating procedures for sample storage and transportation with reference to temperature, humidity, leak proofing etc. Describe the significance of critical alert values in laboratory reports. Explain the process of managing inventory through checklists and inventory registers. Explain the correct method of labelling and preparing the collected sample for testing and identification purposes. Explain the correct method of assisting the patient after collection of the blood specimen. Explain the correct method of storage of various collected samples other than blood. Explain the correct procedure of sample transportation. Discuss the process of organizing stocks related to phlebotomy as per organizational practices. 	Sample forms and formats, sample transport bags

8.	Basic sensitization on preanalytical laboratory errors Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 15:00 Bridge Module	 Classify preanalytical variables. Enumerate different physiological preanalytical variables. Define Turn Around Time (TAT) with reference to respective laboratories. Describe the causes of preanalytical errors. List the steps to reduce preanalytical errors. Enumerate various documents necessary for recording preanalytical errors. 	Fishbone charts on causes of haemolysis
9.	Basic sensitization on analytical laboratory testing process Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 25:00 Bridge Module	 Explain the process of sample transportation. Explain the process of sample storage after centrifugation. Describe the correct process of specimen handling. Discuss the importance of timely maintenance of inventory of medical supplies or diagnostic kits. Describe various types of blood samples collected such as venous blood, arterial blood etc. Define different types of blood matrix. Describe the process of preparation of blood serum and plasma. Explain the types of tests being conducted from blood sample types. 	Centrifuge, refrigerator
10.	Basic sensitization on post-analytical laboratory testing process Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00 Bridge Module	 Describe archiving protocol emphasizing on storage of samples/ specimens. Describe archiving protocol emphasizing on storage data and records. Describe the retrieval of samples/ specimens Describe the retrieval of data and records. Describe source of error/ interference/ quality of work and initiate corrective action as applicable. Explain various quality assurance activities which ensure the accuracy of working in a laboratory. Define the process of sample recollection in case of repeat sample requests. Explain the process of sample recollection. 	sample test request forms

11. Sensitization on current be practices in laboratory Theory Durati (hh:mm) 10:00 Practical Duration (hh:mm) 25:00 Bridge module	 Organisation (WHO). Describe the key points of Clinical Lab Standards Institute (CLSI) standard on sample collection. Describe the good clinical laboratory practices (GCLP) of Indian Council of Medical Research (ICMR). Describe the laboratory safety guidelines of OSHA (Occupational Safety and Health Administration), U.S. Department of Labor. Describe the laboratory safety policies and protocols. Explain the key points of standard ISO 15189 Explain internal and external quality control documentation. Discuss the best practices to be followed while carrying out job specific procedures. 	Reference guideline charts and WHO, OSHA, (WHO), CLSI, ICMR
12. Prepare for Hospital/ site visit Theory Durati (hh:mm) 10:00 Practical Duration (hh:mm) 10:00	 State the importance of being on time. Explain phone etiquettes to be followed with the patient while organizing a site visit. Explain the process of confirming the availability of patient and the respective tests for sampling. State the importance of making the necessary preparations using checklist before a site-visit. Describe the process to be followed in case of delay in reaching patient site. State the importance of establishing the patient's needs and expectation to ensure good quality service at the site. Discuss the importance of maintaining privacy of the patient. Describe the importance of carrying identification documents and introducing oneself to the patient on arrival. Describe common expectations while visiting patient's residential facilities. Plan the route for site visit and determine travel time for reaching the site on time. Explain the salient points of personal grooming standards. 	Checklist of equipment for site visit, syringe, needles, disposable container, tourniquet, isopropyl alcohol, cotton swab, gauze pieces, permanent marker pen, adhesive tape, evacuated/ non- evacuated tubes

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13.	Follow	Describe the steps to be followed before	Educational
	etiquette for	accessing and using patient facilities,	videos of case
	Hospital/ site	resources and areas.	studies
	visits	State the importance of setting correct	
		expectations of follow-up action with the	
	Theory Duration	patient.	
	(hh:mm) 20:00	•	
	(1111.11111) 20.00	List the steps to ensure that patient facilities	
		are not soiled or littered, and its importance.	
	Practical	Describe the procedure to follow in case there	
	Duration	is an accident or mishap at the patient	
	(hh:mm) 25:00	premises.	
	(1111.11111) 25.00	Explain the importance of time and site	
		information with the collection centre.	
		Describe the correct waste disposal	
		procedures.	
		Define various best practices of site visit such	
		as taking prior permission.	
		Define the necessary adjustments required to	
		be made to the space for carrying out	
		required activities as per the standard.	
		 Describe the process and sequence of 	
		activities to be carried out to the patient.	
		Discuss the process of handling queries.	
		Perform billing after the procedures are carried	
		out.	
		Explain the process of waste disposal as per	
		waste disposal guidelines.	
		 Discuss the process of addressing delays, 	
		accidents or errors to ensure patient	
47		satisfaction.	
17.	Infection control	Describe the importance of infection control	Current guidelines
17.	policies and	and prevention.	on hand washing
17.		and prevention.Identify the factors which influence the	_
17.	policies and	and prevention.	on hand washing
17.	policies and	 and prevention. Identify the factors which influence the outcome of an exposure to infection. 	on hand washing and hand rub
17.	policies and procedures	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of 	on hand washing and hand rub techniques, spill kit, PPE such
17.	policies and procedures Theory Duration	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves,
17.	policies and procedures Theory Duration (hh:mm)	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head
17.	policies and procedures Theory Duration	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves,
17.	policies and procedures Theory Duration (hh:mm) 10:00	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. Enumerate various nosocomial infections 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head
17.	policies and procedures Theory Duration (hh:mm) 10:00 Practical	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. Enumerate various nosocomial infections Explain the importance of incident reporting. 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head
17.	policies and procedures Theory Duration (hh:mm) 10:00 Practical Duration	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. Enumerate various nosocomial infections Explain the importance of incident reporting. Develop techniques of self-grooming and 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head
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	policies and procedures Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 25:00	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. Enumerate various nosocomial infections Explain the importance of incident reporting. Develop techniques of self-grooming and maintenance. Explain the concept of immunisation to reduce the health risks for self and patients. Explain the concept of healthy living. Describe the techniques of proper usage of PPE. Explain the importance of PPE. Explain various vaccinations against common infectious diseases. 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head cap
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	policies and procedures Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 25:00 Bio Medical Waste Management	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. Enumerate various nosocomial infections Explain the importance of incident reporting. Develop techniques of self-grooming and maintenance. Explain the concept of immunisation to reduce the health risks for self and patients. Explain the concept of healthy living. Describe the techniques of proper usage of PPE. Explain the importance of PPE. Explain various vaccinations against common infectious diseases. Explain the importance of proper and safe disposal of bio-medical waste and treatment. Explain the categories of bio-medical waste Discuss about disposal of bio-medical waste 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head cap Different colour bins, hospital protocols for
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	policies and procedures Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 25:00 Bio Medical Waste Management Theory Duration (hh:mm)	 and prevention. Identify the factors which influence the outcome of an exposure to infection. List strategies for preventing transmission of pathogenic organisms. List the steps of spill management. List the process of hand washing. Enumerate various nosocomial infections Explain the importance of incident reporting. Develop techniques of self-grooming and maintenance. Explain the concept of immunisation to reduce the health risks for self and patients. Explain the concept of healthy living. Describe the techniques of proper usage of PPE. Explain the importance of PPE. Explain various vaccinations against common infectious diseases. Explain the importance of proper and safe disposal of bio-medical waste and treatment. Explain the categories of bio-medical waste Discuss about disposal of bio-medical waste – colour coding, types of containers, transportation of waste, etc. 	on hand washing and hand rub techniques, spill kit, PPE such as gown, gloves, head cap Different colour bins, hospital protocols for

	Practical Duration	treatment.	
	(hh:mm) 15:00		
19.	Basic Computer Knowledge	 Discuss the application of computers. Differentiate between the hardware and software. 	Computer with internet facility and latest MS office
	Theory Duration (hh:mm) 20:00	 Differentiate between the input and output devices. Discuss the foundation concept of operating systems and their functions. 	
	Practical Duration (hh:mm) 25:00	Discuss the latest non- pirated version of software such as Windows 2010, its utilities and basic operations of Microsoft office 2000 – MS Word, MS Excel, PowerPoint Presentation.	
	Bridge Module	r resentation.	
20.	Reporting and Documentation	 Define the scope of practice for phlebotomist in reporting and documentation. Define reporting matrix and discuss the methods. 	Sample formats of reports and hospital documents
	Theory Duration (hh:mm) 15:00	 Explain the importance of maintaining various records. Explain various types of records to be maintained by the department. 	
	Practical Duration (hh:mm) 20:00	 Discuss essential components of various types of records. Explain the method of documentation and retrieval of documents. Discuss the importance of reporting and recording patient information. Discuss the importance of confidentiality in patient report information. 	
21.	Personal Hygiene Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00	 Explain the significance of maintaining personal hygiene. Describe the principles of prevention of cross infection. Explain the importance of personal protective equipment (PPE). Discuss the techniques of proper usage of personal protective equipment (PPE). 	Hand sanitizer, liquid soap, wash basin, water supply, paper towel, PPE

Theory – 250 Hrs.

Practical / Clinical – 350 Hrs.

Total -600 Hrs. of classes At the end of 6^{th} month final exam will be held. A candidate has to secure 50% to get the certificate of (CEMGT)

Distribution of Marks

Theory – 40

Clinical / Practical - 50

Internal Assessment – 10

Total - 100

