

**Curriculum**  
for the  
**Two Years' Post Matric Competency Based**  
**Diploma in**  
**Endoscopy Technician**  
  
**(New Scheme)**



**Punjab Medical Faculty**  
**2020**

NISHTAR MEDICAL UNIVERSITY  
SYLLABUS OF ENDOSCOOPY TECHNICIAN

- Topics:
1. Endoscopy Equipment
  2. Endoscopy Suite facilities and staff
  3. Pre-operative patient preparation
  4. Equipment handling
  5. Post-operative patients care
  6. Quality assurance in reprocessing/sterilization of equipment
  7. Equipment storage/maintenance
  8. Anatomy of gastrointestinal tract

Teaching Hours: 3 hours / week

Practical: 28 hours / week

Assessment Exam: 02 Year

Marks: 100

Course Duration: 02 Years

Exam: MCQs

PMF requirement:

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# Endoscopy Technician Assessment Outline

**\*\*These areas will be covered in the study material for this exam.**

## **1. Rules and Regulations and Safety (14% of Exam)**

- OSHA (e.g. PPE, Blood Borne Pathogens (including Standard Precautions), transport of soiled scopes and accessories, biohazard waste removal, Hazard communication, Safety Data Sheets, Safety, Sexual Harassment/Workplace Violence, eyewash stations)
- EPA, FDA (e.g. Medical Device Reporting; Compliance with Manufacturer's Instructions for Use), HIPAA regulations, standards
- Standards: AAMI, ST-91, ST-79, ST-58, Guidelines; AORN, CDC (Spaulding Classification), ASGE, Multi-Society Guideline, SGNA
- Accreditation agencies (e.g. The Joint Commission, AAAHC)
- Employee safety, (e.g. Latex allergy; ergonomics)
- Environmental safety (fire safety, electrical safety, patient emergency equipment-location and operation, waste management)

## **2. Life Sciences (8% of Exam)**

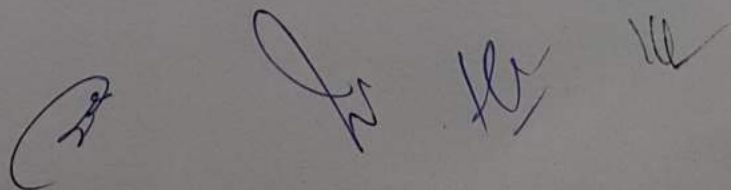
- Types of microorganisms that pertain to GI/Endo (bacteria, virus, fungus, prions)
- Disease transmission (i.e. biofilm formation, bioburden)
- Prevention of cross contamination (design of endoscopy reprocessing area; work flow, traffic control, separation of clean/dirty; monitoring temp and humidity levels, hand hygiene, transport of high level disinfected scopes)
- Anatomy and Physiology as related to GI and Pulmonary body systems
- Medical Terminology; signs and symbols
- Medical procedures involving flexible scopes
- Labeling, handling and transporting specimens

## **3. Scopes and Accessories for Endoscopic Procedures (13% of Exam)**

- Anatomy of various GI and pulmonary flexible scopes
- Scope function (use of scopes); includes knowledge of various types of scopes
- Accessories (snare, water bottles, mouth gags, reusable biopsy forceps, etc., single use items, function valves and biopsy port covers)

## **4. Handling and Cleaning of Scopes and Accessories (21% of Exam)**

- Pre-cleaning and transport of used scopes and accessories including water bottles, mouth gags, reusable biopsy forceps, etc.
- Inspection for visible soils and damage of scopes and reusable accessories. Includes what to inspect and how to inspect.
- Leak testing procedures; methods of testing, actions to take with a failed leak test
- Cleaning methods, (e.g. manual, mechanical) water quality, cleaning implements (e.g. brushes) and equipment (automated flushing systems, automated endoscope reprocessors) for flexible scopes and accessories; steps in the cleaning process, delayed reprocessing



- Cleaning verification methods
- Selection and use of cleaning chemicals (e.g. pH, concentration, water quality, temperature, action of chemical), rinsing; water quality
- Use of sterile sheaths

#### 5. Reprocessing of Scopes and Accessories (22% of Exam)

- Use of high level disinfectants and liquid chemical sterilants (e.g. chemicals, use of test strips for HLD, use (e.g. exposure time), temperature, rinsing, water quality, shelf life vs. use life of HLDs). Includes minimum effective concentration (MEC) and minimum recommended concentration testing (MRC), shelf life vs. use life of chemicals, quality control testing of test strips, topping off solutions.
- High level disinfection methods (e.g. manual, mechanical, AER)
- Post disinfection procedures (e.g. alcohol flush, drying), labeling and dating
- Storage of HLD or sterilized scopes and accessories

#### 6. Documentation (12% of Exam)

- Required or recommended Orientation, training and competency verification for all scopes, flushing devices, HLDs, etc.
- Cleaning and high level disinfection protocols; traceability to the patient
- Leak testing and chemical disinfection efficacy testing (MEC/MRC testing), quality assurance testing of HLD test strips
- Incident reporting
- Cleaning effectiveness testing (products and usage)

#### 7. Ethics (10% of Exam)

- Compliance with regulatory standards, best practices, procedures and/or guidelines that impact on patient, employee or environmental safety; reporting instances of non-compliance
- Professional behavior (e.g. non-compliance with dress code; disruptive behavior; theft; willful damage to equipment/property)

#### Study Material Used to

##### Prepare for Endoscopy Technician Assessment

1. CBSPD GI Scope Study Guide, 4th Edition
2. SPU's The Basics of Flexible Endoscope Reprocessing Textbook - 2nd Edition
3. SPU's The Basics of Flexible Endoscope Reprocessing Workbook - 2nd Edition

#### Other Study Resources to Use

- Association for the Advancement of Medical Instrumentation (AAMI/ANSI) "Chemical Sterilants and High Level Disinfectants in Health Care Facilities." ST-58, 2005(R)2010.

- Association of peri-Operative Registered Nurses. *Standards, Recommended Practices and Guidelines, 2007 Edition.*
- Endoscope Cleaning and High Level Disinfection Module. 5th Edition. SGNA, 2013.
- Gastroenterology Nursing: A Core Curriculum. 5th Edition, SGNA, 2013.
- Guideline for the Use of HLD and Sterilants for Processing of Flexible GI Scopes. SGNA, 2011.
- Manual of GI Procedures. 6th Edition. SGNA, 2009.
- Multi-Society Guideline for Reprocessing Flexible GI Endoscopes, 2011.
- OSHA, Blood Borne Pathogens Ruling, 1991.
- OSHA, Hazard Communication Ruling, 1994, 2012.
- SGNA Manual of Pulmonary Procedures for Endoscopy Nurses. 3rd Edition, 2012.
- Standards of Infection Control in Reprocessing of Flexible Gastrointestinal Endoscopes, 2012.

#### Eligibility Requirements & Info

The CBSPD does not discriminate among applicants as to age, sex, race, religion, national origin, disability, or marital status. **The examination is only offered in English in the United States. Candidates must be able to interpret, speak, and write English.**

Prior to the examination deadline, **only \*\*ONE\*\*** of the following requirements **MUST** be met in order to qualify to take this examination.

- Completion of **24 months** of full-time employment or equivalent part-time hours processing flexible endoscopes (**provide verification signed by your manager on your exam application**) ...OR

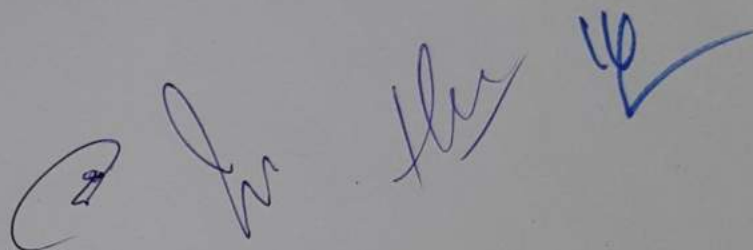
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- Completion of an Endoscopy Technician course (provide copy of certificate/grade from your instructor) AND 6 months experience processing flexible endoscopes (provide verification signed by your manager on your exam application)...OR

Number of questions on exam: 100 multiple choice

Time to complete exam: 2 hours

Passing scaled score for exam: 60

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