

Canadian Society for Medical Laboratory Science Société canadienne de science de laboratoire médical

# Personal Competency Rating Booklet

General Medical Laboratory Technologist (MLT)

□ Miss □ Mrs □ Ms □ Mr	G	2MT2 ID:	
Last Name (print above)	Fi	rst Name	Middle Initial
Address	City	Province	Postal Code
Telephone No.		Business Telep	hone No.
Fax No.		Email	
Applicant's Statement:  • I declare that the information • I have read and agree to a policies, procedures, rules as	abide by th	e prior learning as	•

Signature

Date

**Print Name** 

#### **Disclaimer**

Before you apply for a Prior Learning Assessment (PLA), you must read and understand all the policies and regulations outlined in this handbook. By signing the application form, you are agreeing to all of these policies and regulations. Failure to do so may result in cancellation of your PLA application and a loss of your payment.

#### **Contact Information**

Canadian Society for Medical Laboratory Science

#### **Address**

33 Wellington St N Hamilton, ON L8R 1*M*7

Telephone

Fax

(905) 667-8507 **or** (800) 263-8277 Ext. 8507 (905) 528-4968

Email

Website

pla@csmls.org

www.csmls.org

The Canadian Society for Medical Laboratory Science (CSMLS) is the national certifying body for medical laboratory technologists and medical laboratory assistants, and the national professional society for Canada's medical laboratory professionals. As such, to maintain fairness to all our members we do not allow visitors at the CSMLS nor do we accept documents at our door.

## Instructions

As you go through each competency statement, rate your knowledge and experience by the following ratings:

- 1. I have no experience or education in this area
- 2. I am developing skills/knowledge in this area
- 3. I have education but no work experience in this area
- 4. I perform or demonstrate skills in this area with some assistance
- 5. I perform or demonstrate skills independently in this area

When showing where you got your knowledge and experience, keep in mind:

- **Education** refers to your initial didactic learning, your clinical/practical internships, and continuing education or professional development.
- Work experience refers to employment.

In the space provided, give details of your education and work experience related to the statement. Tell us if you accomplished a competency by education, work experience, or both. Indicate where you got your education or work experience.

Once you finish the Personal Competency Rating Booklet:

- Make a copy for your files
- Send the original with your PLA application

#### **Example**

Number:	Competency:
2.03	Confirms the identity of the patient and performs venipuncture and capillary blood collection to obtain appropriate samples for laboratory analysis
Rating:	<ol> <li>□ 1. I have no experience or education in this area</li> <li>□ 2. I am developing skills/knowledge in this area</li> <li>☑ 3. I have education but no work experience in this area</li> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ol>
	to identify patients in class and about confidentiality but I have never collected blood ectly with patients.

#### **Safe Work Practices**

The medical laboratory technologist conducts their professional practice according to established protocols, safety guidelines, and existing legislation.

Number:	Competency:
1.01	Applies the principles of routine practices
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.02	Uses personal protective equipment, e.g. gloves, gowns, mask, face shields, aprons
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
20.0	
Number:	Competency:
	Competency: Applies laboratory hygiene and infection control practices
Number:	

Number:	Competency:
1.04	Minimizes possible dangers from biological specimens, laboratory supplies and equipment
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.05	Uses laboratory safety devices, e.g. biological safety cabinet, fume hood, laminar flow cabinet, safety pipetting device, safety container and carrier, safety shower, eye wash station
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.06	Labels, dates, handles, stores and disposes chemicals, dyes, reagents and solutions according to legislation, e.g. WHMIS
Rating:	<ul> <li>1. I have no experience or education in this area</li> <li>2. I am developing skills/knowledge in this area</li> </ul>
	<ul> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> <li>5. I perform or demonstrate skills independently in this area</li> </ul>
Details:	☐ 4. I perform or demonstrate skills in this area with some assistance
Details:  Number:	☐ 4. I perform or demonstrate skills in this area with some assistance
	<ul> <li>4. I perform or demonstrate skills in this area with some assistance</li> <li>5. I perform or demonstrate skills independently in this area</li> </ul>
Number:	<ul> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ul> Competency:

Number:	Competency:
1.08	Stores, handles, transports and disposes biological and other hazardous materials according to legislation
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.09	Uses disinfection and sterilization methods
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.10	Minimizes potential hazards related to disinfection/sterilization methods
Rating:	<ul> <li>□ 1. I have no experience or education in this area</li> <li>□ 2. I am developing skills/knowledge in this area</li> <li>□ 3. I have education but no work experience in this area</li> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ul>
Rating:  Details:	<ul> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
·	<ul> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
Details:	<ul> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> <li>5. I perform or demonstrate skills independently in this area</li> </ul>
Details:  Number:	<ul> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> <li>5. I perform or demonstrate skills independently in this area</li> </ul> Competency:

Number:	Competency:
1.12	Applies spill containment and clean up procedures for biological and other hazardous materials
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.13	Responds appropriately to workplace emergencies
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.14	Reports and documents all incidents related to safety and personal injury
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
1.15	Applies proper ergonomic principles to minimize risk of injury
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

## Data and Specimen Collection and Handling

The medical laboratory technologist verifies relevant data and ensures that appropriate specimens are collected and handled according to established protocols.

Number:	Competency:
2.01	Verifies relevant information is provided for test request
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.02	Provides information to the client on specimen collection, transportation and storage
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
Number: 2.03	Competency:  Confirms the identity of the patient and performs venipuncture and capillary blood collection to obtain appropriate samples for laboratory analysis
	Confirms the identity of the patient and performs venipuncture and capillary blood
2.03	Confirms the identity of the patient and performs venipuncture and capillary blood collection to obtain appropriate samples for laboratory analysis  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance

Number:	Competency:
2.04	Performs sample collection and chain of custody procedures relating to specimens with legal implications
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.05	Adheres to established protocols for labeling and traceability of specimens
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.06	Delivers specimens taking into account priority and stability
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.07	Assesses suitability of the specimen for testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
2.08	Verifies that the pertinent data on the specimen and requisition correspond
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.09	Accessions specimens into laboratory information systems
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.10	Adheres to guidelines for specimen retention, storage, transportation and disposal
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
2.11	Prepares specimens for analysis
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
2.12	Identifies, documents and initiates corrective action for pre-examination (pre-analytical) errors
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

## **Analytical Processes**

The medical laboratory technologist understands the principles and performs analytical techniques and assesses results on a variety of specimens.

Number:	Competency:
3.01	Applies the principles of microscopy:
	■ bright field
	• fluorescence
	<ul><li>polarizing</li><li>inverted</li></ul>
Rating:	☐ 1. I have no experience or education in this area
	☐ 2. I am developing skills/knowledge in this area
	<ul> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
	☐ 5. I perform or demonstrate skills independently in this area
Details:	
Defails.	
Number:	Competency:
3.02	Applies the physical and chemical principles of staining
3.02.01	Assesses the quality of staining and initiates corrective action
Rating:	☐ 1. I have no experience or education in this area
	<ul> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> </ul>
	<ul> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
	□ 5. I perform or demonstrate skills independently in this area
Details:	
Number:	Competency:
3.03	Applies principles of light measuring systems used in common instruments:  • absorption spectrophotometry
	• reflectometry
	• turbidimetry
2 02 01	Manager we wilted indentified according of interference and initiated according action
3.03.01	Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area
Rating:	☐ 2. I am developing skills/knowledge in this area
	☐ 3. I have education but no work experience in this area
	<ul> <li>4. I perform or demonstrate skills in this area with some assistance</li> <li>5. I perform or demonstrate skills independently in this area</li> </ul>
Details:	

Number:	Competency:
3.04	Applies principles of electrochemical systems used in common instruments:
	<ul> <li>ion selective electrodes</li> <li>conductance electrodes</li> </ul>
3.04.01	Assesses results, identifies sources of interference and initiates corrective action
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.05 3.05.01	Applies principles of electrophoresis and chromatography Assesses results, identifies sources of interference and initiates corrective action
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
Number: 3.06 3.06.01	Competency:  Applies principles of osmometry  Assesses results, identifies sources of interference and initiates corrective action
3.06	Applies principles of osmometry
3.06.01	Applies principles of osmometry     Assesses results, identifies sources of interference and initiates corrective action     1. I have no experience or education in this area     2. I am developing skills/knowledge in this area     3. I have education but no work experience in this area     4. I perform or demonstrate skills in this area with some assistance
3.06 3.06.01 Rating:	Applies principles of osmometry     Assesses results, identifies sources of interference and initiates corrective action     1. I have no experience or education in this area     2. I am developing skills/knowledge in this area     3. I have education but no work experience in this area     4. I perform or demonstrate skills in this area with some assistance
3.06 3.06.01 Rating:	Applies principles of osmometry Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area
3.06 3.06.01 Rating: Details: Number: 3.07	Applies principles of osmometry Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area  Competency: Applies principles of immunoassays

Number:	Competency:
3.08 3.08.01	Demonstrates knowledge of principles of mass spectrometry Assesses results, identifies sources of interference and initiates corrective action
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.09 3.09.01 3.09.02	Applies principles of particle analysis used in common hematology instrumentation Assesses results, identifies sources of interference and initiates corrective action and/or follow up testing Performs manual counting procedures
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
Number: 3.10 3.10.01	Competency:  Demonstrates the knowledge of principles of flow cytometry  Assesses results, identifies sources of interference and initiates corrective action
3.10	Demonstrates the knowledge of principles of flow cytometry
3.10 3.10.01	Demonstrates the knowledge of principles of flow cytometry Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance
3.10 3.10.01 Rating:	Demonstrates the knowledge of principles of flow cytometry Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance
3.10 3.10.01 Rating:	Demonstrates the knowledge of principles of flow cytometry Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area  Competency:  Applies the principles of hemostasis to perform coagulation testing Assesses results, identifies sources of interference and initiates corrective action and/or follow-up testing
3.10 3.10.01 Rating: Details: Number: 3.11	Demonstrates the knowledge of principles of flow cytometry Assesses results, identifies sources of interference and initiates corrective action  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area  Competency:  Applies the principles of hemostasis to perform coagulation testing Assesses results, identifies sources of interference and initiates corrective action

Number:	Competency:
3.12.01	Performs qualitative and quantitative biochemical analyses Assesses results, identifies sources of interference and initiates corrective action and/or follow up testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.13	Prepares blood, body fluids and other clinical specimens for microscopic examination
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.14 3.14.01 3.14.02	Identifies and evaluates the morphology of cellular and non-cellular elements in microscopic preparations  Differentiates between clinically significant and insignificant findings  Assesses results, identifies sources of interference and initiates corrective action and/or follow up testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.15	Applies principles of immunology to the detection of antigens and antibodies
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
3.16 3.16.01 3.16.02 3.16.03 3.16.04	Performs testing to identify common red blood cell antigens and antibodies: Interprets results to determine phenotype/genotype Differentiates between clinically significant and insignificant antibodies Performs compatibility analyses Assesses results, identifies sources of interference and initiates corrective action and/or follow up testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.17 3.17.01 3.17.02 3.17.03 3.17.04	Prepares and issues blood products Assesses compatibility of donor/product Ensures proper storage of blood products Evaluates the quality of blood products Evaluates the appropriateness of the blood product for the patient's clinical situation
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.18	Describes and investigates the adverse effects of transfusion according to established protocol and initiates follow-up action
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
3.19	Performs analyses to detect and identify common clinically significant microorganisms
3.19.01 3.19.02 3.19.03	Selects appropriate culture media and environment for isolation  Describes common clinically significant micro-organisms according to body site  Confirms identification using staining techniques, biochemical, serological and
3.19.04	automated testing methods  Applies the principles of instrumentation to the detection of micro-organisms
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.20.01	Performs antimicrobial susceptibility analyses Assesses results, identifies sources of error and initiates corrective action and/or follow-up testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.21 3.21.01	Applies molecular diagnostic principles to identify nucleic acid sequences Assesses results, identifies sources of interference/errors, initiates corrective action and/or follow up testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
3.22	Performs tissue preparation techniques:      Grossing     Processing     Embedding     Sectioning (paraffin and frozen)
0.22.01	Assesses quality of the preparation and initiates corrective action and/or follow up
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.23	Performs techniques to demonstrate cellular and non-cellular components in tissue and body fluids  Assesses quality of the technique and initiates corrective action and/or follow up
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
3.24 3.24.01	Operates and maintains standard laboratory equipment/instruments Prepares reagents, calibrators, standards and quality control materials
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
3.25	Describes the role of the laboratory in point-of-care testing
3.25.01	Performs point-of-care techniques, assesses results, identifies sources of interference and initiates corrective action
Rating:	□ 1. I have no experience or education in this area     □ 2. I am developing skills/knowledge in this area     □ 3. I have education but no work experience in this area     □ 4. I perform or demonstrate skills in this area with some assistance     □ 5. I perform or demonstrate skills independently in this area
Details:	

## **Interpretation and Reporting Results**

The medical laboratory technologist uses scientific knowledge and skills to interpret, document and report laboratory results according to established protocols.

Number:	Competency:
4.01	Recognizes the relationship between analyses, diagnoses, clinical information and treatment by assessing results on the basis of:  • specimen integrity • reference values • critical values • method limitations, e.g. dynamic ranges, interferences, specificity, sensitivity • patient delta checks • clinical conditions • other laboratory findings
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
4.02	Reports results that meet quality control criteria
Rating:	<ul> <li>□ 1. I have no experience or education in this area</li> <li>□ 2. I am developing skills/knowledge in this area</li> <li>□ 3. I have education but no work experience in this area</li> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ul>
Details:	<ul> <li>□ 1. I have no experience or education in this area</li> <li>□ 2. I am developing skills/knowledge in this area</li> <li>□ 3. I have education but no work experience in this area</li> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ul>
, c	<ul> <li>1. I have no experience or education in this area</li> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
Details:	<ul> <li>□ 1. I have no experience or education in this area</li> <li>□ 2. I am developing skills/knowledge in this area</li> <li>□ 3. I have education but no work experience in this area</li> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ul>
Details:  Number:	□ 1. I have no experience or education in this area □ 2. I am developing skills/knowledge in this area □ 3. I have education but no work experience in this area □ 4. I perform or demonstrate skills in this area with some assistance □ 5. I perform or demonstrate skills independently in this area  Competency:  Identifies unexpected or implausible results and takes appropriate action prior to

Number:	Competency:
4.04	Recognizes and acts on critical values
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
4.05	Documents results accurately
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
4.06	Accounts for all tests requested
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

## **Quality Management**

The medical laboratory technologist practises and promotes the principles of quality management.

5.01	Demonstrates knowledge of quality systems essentials (QSE)
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.02	Follows established protocols as defined in policy, process and procedure manuals
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.03	Assesses quality control data and calibration data
5.03 Rating:	Assesses quality control data and calibration data  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area
	<ul> <li>1. I have no experience or education in this area</li> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
Rating:	<ul> <li>1. I have no experience or education in this area</li> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> </ul>
Rating:  Details:	□ 1. I have no experience or education in this area □ 2. I am developing skills/knowledge in this area □ 3. I have education but no work experience in this area □ 4. I perform or demonstrate skills in this area with some assistance □ 5. I perform or demonstrate skills independently in this area  Competency: Uses statistics to monitor and track the acceptability of quality control results
Rating:  Details:  Number:	<ul> <li>□ 1. I have no experience or education in this area</li> <li>□ 2. I am developing skills/knowledge in this area</li> <li>□ 3. I have education but no work experience in this area</li> <li>□ 4. I perform or demonstrate skills in this area with some assistance</li> <li>□ 5. I perform or demonstrate skills independently in this area</li> </ul> Competency:

Number:	Competency:
5.05	Identifies, documents and reports deficiencies that may affect the quality of testing
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.06	Performs and documents preventative maintenance according to established protocols
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.07	Recognizes malfunctions in equipment/instruments, initiates and documents corrective action
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.08	Participates in continuous quality improvement activities
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:
5.09	Demonstrates knowledge of risk management
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.10	Participates in internal and external quality assurance activities, e.g. proficiency testing, audits, accreditation
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.11	Demonstrates knowledge of inventory maintenance
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
5.12	Demonstrates information management skills, e.g. computer, laboratory information systems and related technology
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

## **Critical Thinking**

The medical laboratory technologist applies critical thinking skills to constructively investigate, evaluate and problem solve.

Number:	Competency:
6.01	Demonstrates knowledge of a dynamic environment; adapts and responds to change
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
6.02	Recognizes that change initiated in one area may impact other areas of health care services
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
6.03	Engages in reflective practice; stops and thinks about practice, consciously analyzes decision making and draws conclusions to improve future practice
6.03 Rating:	

Number:	Competency:	
6.04	Organizes work to accommodate priorities	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
6.05	Maximizes efficient use of resources, e.g. time, equipment, personnel	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
6.06	Demonstrates effective problem solving/trouble-shooting strategies and initiates appropriate follow up	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
6.07	Contributes to implementation strategies that integrate timelines, resource management and communication related to projects or research/studies	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		

Number:	Competency:	
6.08	Practises evidence-based decision-making skills such as literature review, data analysis and research methodologies/studies	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		

#### **Communication and Interaction**

The medical laboratory technologist interacts using effective communication, teamwork skills and interprofessional collaboration with patients/clients and other health care professionals.

Number:	Competency:
7.01	Practises effective communication with colleagues, patients/clients and other health care professionals:  • Active listening • Verbal communication • Non-verbal communication • Written communication • Conflict management • Identifying barriers to effective communication • Using technology appropriately to facilitate communication
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	
Number:	Competency:
7.02	Demonstrates effective teamwork skills
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>
Details:	

Number:	Competency:	
7.03	Demonstrates interdisciplinary/interprofessional team skills:	
Rating:	<ul> <li>1. I have no experience or education in this area</li> <li>2. I am developing skills/knowledge in this area</li> <li>3. I have education but no work experience in this area</li> <li>4. I perform or demonstrate skills in this area with some assistance</li> <li>5. I perform or demonstrate skills independently in this area</li> </ul>	
Details:		
Number:	Competency:	
7.04	Demonstrates adaptive skills when interacting with patients/clients	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		

#### **Professional Practice**

The medical laboratory technologist meets the legal and ethical requirements of practice and protects the patient's right to a reasonable standard of care. Professional responsibility encompasses scope of practice, accountability, and professional development.

Number:	Competency:		
8.01	Maintains confidentiality of healthcare information		
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>		
Details:			
Number:	Competency:		
8.02	Complies with legislations that govern medical laboratory technology		
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>		
Details:			
Number:	Competency:		
8.03			
0.00	Recognizes limitations of own competence and seeks action to resolve		
Rating:	Recognizes limitations of own competence and seeks action to resolve  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area		

Number:	Competency:		
8.04	Obtains informed consent prior to procedure and respects a patient's right to refuse		
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>		
Details:			
Number:	Competency:		
8.05	Recognizes potentially dangerous situations and understands the right to refuse unsafe work		
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>		
Details:			
Number:	Competency:		
Number: 8.06	Competency:  Takes responsibility and is accountable for professional actions		
8.06	Takes responsibility and is accountable for professional actions  □ 1. I have no experience or education in this area □ 2. I am developing skills/knowledge in this area □ 3. I have education but no work experience in this area □ 4. I perform or demonstrate skills in this area with some assistance		
8.06 Rating:	Takes responsibility and is accountable for professional actions  □ 1. I have no experience or education in this area □ 2. I am developing skills/knowledge in this area □ 3. I have education but no work experience in this area □ 4. I perform or demonstrate skills in this area with some assistance		
8.06  Rating:  Details:	Takes responsibility and is accountable for professional actions  □ 1. I have no experience or education in this area □ 2. I am developing skills/knowledge in this area □ 3. I have education but no work experience in this area □ 4. I perform or demonstrate skills in this area with some assistance □ 5. I perform or demonstrate skills independently in this area		
8.06  Rating:  Details:  Number:	Takes responsibility and is accountable for professional actions  1. I have no experience or education in this area 2. I am developing skills/knowledge in this area 3. I have education but no work experience in this area 4. I perform or demonstrate skills in this area with some assistance 5. I perform or demonstrate skills independently in this area		

Number:	Competency:	
8.08	Promotes the image and status of the profession of medical laboratory science as members of the health care team	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
8.09	Recognizes how ethical issues in the health care environment affect the medical laboratory technologist and clients	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
8.10	Demonstrates knowledge of the health care system, professional laboratory organizations and their responsibilities	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
8.11	Demonstrates knowledge of the determinants of health and their implications for the laboratory system	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		

Number:	Competency:	
8.12	Respects the diversity, dignity, values, and beliefs of patients/clients and colleagues	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		
Number:	Competency:	
8.13	Demonstrates knowledge of interpersonal skills:	
	<ul> <li>Recognizes signs of individual and group stress</li> <li>Recognizes signs of patient stress</li> <li>Exhibits empathy when assisting patients and colleagues</li> </ul>	
Rating:	<ol> <li>I have no experience or education in this area</li> <li>I am developing skills/knowledge in this area</li> <li>I have education but no work experience in this area</li> <li>I perform or demonstrate skills in this area with some assistance</li> <li>I perform or demonstrate skills independently in this area</li> </ol>	
Details:		

## **Examination Blueprint**

The CSMLS Medical Laboratory Technologist Examinations are based on this blueprint.

1. Safe Work Practices	5-7%
2. Data and Specimen Collection and Handling	5-7%
3. Analytical Processes	30-35%
4. Interpretation and Reporting of Results	20-25%
5. Quality Management	20-25%
6. Critical Thinking	7-10%
7. Communication and Interaction	3-5%
8. Professional Practice	5-7%

© Copyright CSMLS 2017

No part of this publication may be reproduced in any form without the written permission of the Canadian Society for Medical Laboratory Science.

## Canadian Society for Medical Laboratory Science

33 Wellington St N, Hamilton, Ontario, L8R 1M7 T: (905) 667-8507 or (800) 263-8277 ext. 8507

F: (905) 528-4968

E: pla@csmls.org www.csmls.org