

# NEWSLETTER

MARCH 2021



ASCP  
BOARD OF  
CERTIFICATION®

**Providing excellence in  
certification of laboratory  
professionals on behalf  
of patients worldwide.**

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**Susan Johnson, MSTM,  
MT(ASCP)SBB<sup>CM</sup>**

## CHAIR'S MESSAGE

As the pandemic carries on, so too have our laboratory professionals. Thank you, thank you to all of you on the front lines of testing, whether for COVID-19 or other services provided by our certified/qualified individuals. No doubt, every single person worldwide has been impacted.

During this time, the ASCP Board of Certification (BOC) has continued to provide the opportunity for individuals to take the certification or qualification exams when they are ready. As a reminder, anyone who qualifies to take an exam can complete the online application; however, there may be a short wait or a drive might be required to find a testing center with space. As restrictions lighten, we anticipate the same with Pearson Testing Centers; however, like everything, it will be an ever changing environment.

Some may not be aware that the ASCP BOC is involved in advocacy. As the pandemic put a spotlight on laboratory professionals last spring, the ASCP BOC sent a letter to all 50 state governors to raise awareness of the important role that the laboratory workforce plays in the fight against COVID-19. Several letters in support of certified laboratory professionals have been sent to state legislators. In addition, teaching students virtually, among other things, has caused financial hardship on universities threatening closure of three college/university lab science programs

in the last year. The ASCP BOC sent communications to these institutions urging them to continue to maintain these programs that are essential to the workforce of the profession.

As the spring approaches, so does "Exam Committee season" for the BOC. Examination committees will be meeting virtually again this year. The most important work of the BOC is done by these committees. These are the subject matter experts who review the exam question banks, write new questions and use the results of practice analyses to ensure there are exam questions covering up-to-date aspects of what the entry-level laboratory professional does on a daily basis.

On the international front, Kathleen Finnegan, MS, MT(ASCP)SH<sup>CM</sup>, International Liaison, International Consortium for ASCP<sup>I</sup>, and the BOC international staff have been working diligently to promote BOC international certification throughout the world. You can read about their outreach efforts in Africa, Asia, and Latin America in the International News Round-Up.

In closing, thank you again for everything you are doing worldwide to ensure the patients we serve receive the best laboratory focused services now more than ever!

## REVISED PUBLICATIONS AVAILABLE ONLINE

Go to [www.ascp.org/boc](http://www.ascp.org/boc) to find the most current publications.

- 2021 U.S. Procedures for Examination and Certification
- 2021 International Procedures for Examination and Certification
- 2021 Procedures for Qualification
- [Annual Exam Statistics](#)

# MEDICAL LABORATORY ASSISTANT: ONE PIECE OF THE LABORATORY PUZZLE

By E. Susan Cease, MLS(ASCP)<sup>CM</sup>

Lab medicine has seen an explosion of technology since the inception of the profession, while facing increasingly complex regulatory and reimbursement guidelines. When coupled with an existing workforce shortage and the COVID-19 pandemic, many labs are facing challenges maintaining the optimal staff levels needed for operations. As we look for new solutions, the Medical Lab Assistant (MLA) certification has re-emerged as one piece of the puzzle.

The original Medical Laboratory Assistant (MLA) program took two years to complete. When Associate Degree Medical Laboratory Technician (MLT) programs became available, formal MLA programs nearly disappeared. Meanwhile, complexity and volume of testing continued to grow and the number of programs for MLT's and Medical Laboratory Scientists (MLS's) declined. A workplace survey indicated that labs across the US were utilizing an increasing level of support staff with a broad range of duties. Capturing the breadth of tasks performed by this group and defining the role of an MLA in today's environment was, and remains, challenging. In July 2016, a certification exam was released that reflected results from national surveys. The exam includes questions that range from pre-analytic to hands-on work in the testing areas. To qualify to sit for the exam, applicants can complete a NAACLS approved program *or* use one of several alternate routes that include a combination of worked time, training, and formal education.

## One Lab's Journey

Our healthcare system has utilized Lab Assistants (LA's or Processors) for over 30 years, with duties primarily in the processing and microbiology departments. Around 2010, our local community college became involved in a state-wide program assessing the workforce shortages in healthcare professionals. We were able to participate and serve as subject matter experts as they developed a robust nine-month program for MLA's. Several of our staff took on teaching assignments and we began working on a new job description titled MLA. It expanded the scope of work performed by processors, required certification and offered a higher pay grade, effectively providing another rung in our career ladder. Unfortunately, the community college program was closed shortly after the

certification exam became available, pushing us to expand the depth of training for new MLA's.

When we began outlining our expectations for this new position, an unexpected twist was the initial resistance from technical staff. While they wanted and needed support, there was concern about letting go of tasks they had traditionally performed. After due diligence researching scope of practice (defined by CLIA, CAP and state guidelines) and job descriptions from other labs, we were able to move forward with a night shift MLA position that included expanded microbiology duties and maintenance for the automated line. The conversation quickly shifted to listing the tasks we *could* transfer to an MLA if we had more staff. The new position was a huge success and is now considered indispensable.

Having a career ladder with a focus on "growing our own" has been a big part of our long-term staffing strategy and is supported by our organization's tuition reimbursement program. A number of our MLT/MLS staff have completed distance programs while employed as processors. The most recent night shift MLA opening was generated when one of our MLA's accepted an MLT position after completing his degree and MLT certification. A number of our existing staff have completed the MLA certification process and fortunately we have an internal supply of potential MLA applicants. In a normal environment, the planned succession resulting from internal programs could be predicted and managed, but COVID-19 has made this year anything but normal. Balancing the training for new hires and interns in multiple departments and jobs has slowed the expansion of our MLA team, but it also highlights the valuable role they play in our lab. The increased stratification of job duties that results in this staffing model facilitates all staff working at top of scope.

## How do we compare to our region?

An informal review of healthcare systems in our region identified differences in job title, but very similar models for duties and responsibilities. The position may be identified as an MLA, Technical Lab Assistant (TLA), Laboratory Assistant, or Processor. The most common model is two separate levels, often with unique job descriptions to identify education requirements and scope of

duties. Where there is a single job level *or* there is no requirement in the job description for certification, there are raises or steps associated with completing MLA certification. Education requirements range from on-the-job training to a requirement for 24 college credits. The education required is most indicative of the scope of the duties, including resulting tests, as well as the pay range. MLA's may be responsible for processing send outs, maintaining automated lines, managing reagents, performing waived and/or rapid testing, or may be assigned to a specific department. Microbiology is the most often cited department that utilizes a full-time dedicated MLA.

Using and expanding MLA staff has been part of the long-term staffing strategy for these facilities, taking on new urgency as the impact of COVID-19 continues. All facilities plan to expand the use of MLA's with a variety of tasks directly related to COVID-19 testing.

## The Future

The MLA position plays an important role in laboratory operations, with potential to expand as we move forward, but it is not without challenges. The variation in scope and job title limit visibility and recognition. The same variation is its strength, easily molding into a customized role that meets the unique needs of each lab.

The scope for each MLA job description is defined by the lab they work in, but the programs and exam, like the MLT and MLS scope, cover the entire range of duties the MLA could be responsible to perform. Phlebotomy and general MLT/MLS texts are the primary resources, offering a golden opportunity for someone interested in writing a general textbook specific to MLA's.

MLA certification supports career ladder models *and* the need for increased or specialized knowledge in our constantly evolving lab environment. The common nomenclature provided by certification aligns MLA, MLT, and MLS staff, quickly identifying them as laboratorians.

Laboratory medicine promises exciting new technologies and continued challenges as we move forward. MLA's are a piece of the puzzle that is our future.

## 2020 BOC LAB HERO AWARDS

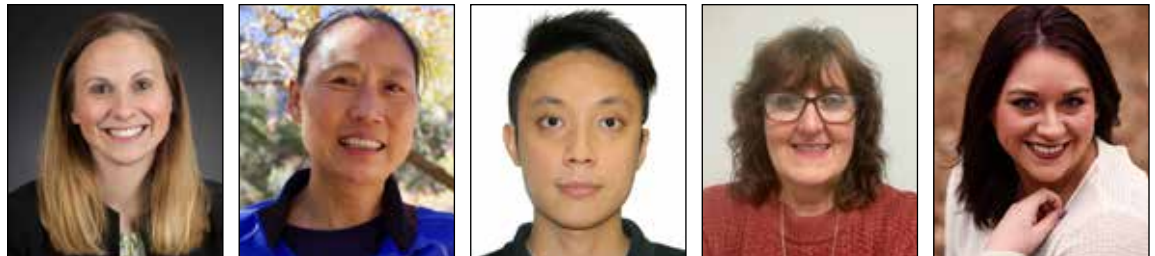
In October 2020, the ASCP Board of Certification (BOC) launched the BOC Lab Hero Awards as a way to celebrate the important contributions of BOC credentialed laboratory professionals.

From October through November, hundreds of nominations and applications poured in from around the world. Award recipients received \$100 to be donated to the healthcare charity of their choice. Award recipients

made donations to the Children's Cancer Hospital Foundation – Egypt, the Leukemia & Lymphoma Society, the War Memorial Hospital's Road to Recovery Program, and the Morrill County Hospital Foundation.

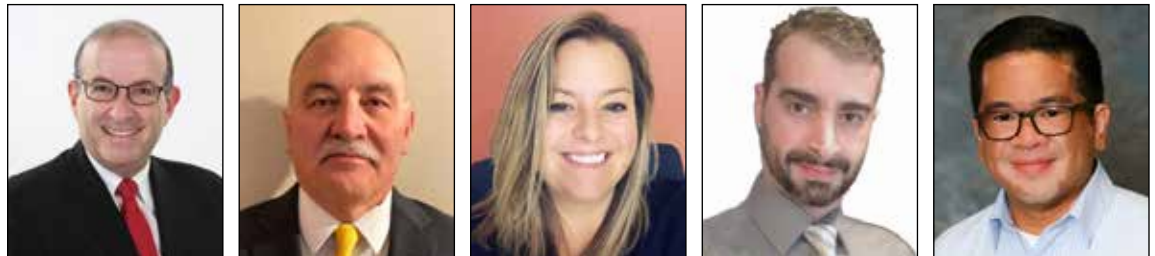
In April 2021, the BOC will highlight each of the 2020 recipients during Laboratory Professional Week, where they will have the chance to explain what it feels like to be a BOC Lab Hero.

### 2020 BOC Lab Hero Runners-up



From left to right: **Krystina Marie Cocco Angelini**, MLS(ASCP)<sup>CM</sup>, **Annie Oy Cheng**, M(ASCP)<sup>SV</sup>, **Kok-Siong Poon**, DLM(ASCP)<sup>CM</sup>MBi<sup>CM</sup>,SMBi<sup>CM</sup>,QLS<sup>CM</sup>, **Mary E. Monteith**, MT(ASCP), and **Apryl Moore**, MLS(ASCP)<sup>CM</sup>

### 2020 BOC Lab Hero Award Recipients



From left to right: **Leonard D. Scinto**, MT(ASCP)<sup>SC</sup>,DLM, **Thomason C. Smith**, MT(ASCP), **Claire L. LaPlaunt**, MLS(ASCP)<sup>CM</sup>, **Mohamed A. Abdelmonem**, H(ASCP)<sup>CM</sup>BB<sup>CM</sup>,MLSi<sup>CM</sup>,SBBi<sup>CM</sup>, **Rex F. Famitangco**, MLS(ASCP)<sup>CM</sup>QLC<sup>CM</sup>

## PDAC TO HOST LIVE EVENTS FOR BOC PROGRAM DIRECTORS

The ASCP Board of Certification Program Director's Advisory Committee (PDAC) is made up of volunteers with several years of program experience. One of their main roles is to manage the Program Director's Facebook group. They aim to present several live events over Zoom in the coming months, focusing on the topics that are top of mind to you, program directors. Make sure to join the group and check the Facebook page often to have your voice heard and to network, share ideas, and support your colleagues.



## IN MEMORIAM: A TRIBUTE TO OUR BELOVED BOARD MEMBER – LENA SPENCER

In December the ASCP Board of Certification lost longtime volunteer Lena Spencer, MA, HTL(ASCP) QIHC<sup>CM</sup>. Ms. Spencer served for many years on the Histotechnology Examination Committee, as a grader for the histology practical and on the ASCP BOC Board of Governors (2011-2020). Prior to her passing, she received the Histotechnologist of the Decade Award from the National Society of Histotechnology (NSH). Ms. Spencer made tremendous contributions to the histotechnology profession by supporting certification, personnel standards, education and continuous

quality assessment. Pat Tanabe MPA, MLS(ASCP)<sup>CM</sup>, the Executive Director of the ASCP Board of Certification shared “I was fortunate to work with such a passionate advocate of the profession over the past twenty-three years. I will miss Lena greatly and will remember her laughter and kindness.”

A [memorial service](#) is planned on what would have been her birthday, May 18, 2021 at Beargrass Christian Church in Louisville, KY.

## ASCP SCHOLARSHIPS UP TO \$1,000 AND GRANTS UP TO \$10,000 ARE AVAILABLE!

### For Laboratory Students:

#### Laboratory Student Scholarships up to \$1,000 each

Assists academically high-achieving laboratory students with expenses related to their medical education. Click [here](#) for more information and to apply.

#### Garza & Becan-McBride Endowed Scholarship

Supports one outstanding phlebotomy student. Click [here](#) for more information and to apply.

### For Laboratory Program Directors:

#### Laboratory Science Program Director

Helps laboratory science programs educate and empower future medical laboratory professionals. Click [here](#) for more information and to apply.

[Apply Today! Applications due May 15!](#)

## HTL(ASCP) AND ASCP<sup>i</sup> EXAMINATIONS ACCEPTED FOR LICENSURE IN NEW YORK STATE

The New York State Department of Education (NYSED) and the State Board for Clinical Laboratory Technology has announced that in addition to the current ASCP Board of Certification examinations that are accepted for New York State licensure, that NYSED now accepts the HTL examination and the ASCP<sup>i</sup> examinations, according to the dates listed in the chart below.

Detailed information on New York State licensure for all four professions can be found at the state's [website](#).

Exam Requirements	Date Accepted for Licensure
<b>Clinical Laboratory Technologist</b>	
ASCP (MLS)	September 1, 2001
ASCP <sup>i</sup> (MLS)	January 1, 2015 NEW
<b>Clinical Laboratory Technician</b>	
ASCP (MLT)	September 1, 2001
ASCP <sup>i</sup> (MLT)	October 1, 2014 NEW
<b>Cytotechnologist</b>	
ASCP (CT)	September 1, 2001
ASCP <sup>i</sup> (CT)	April 1, 2015 NEW
<b>Histological Technician</b>	
ASCP (HT)	September 1, 2001
ASCP <sup>i</sup> (HT)	April 1, 2015 NEW
ASCP (HTL)	September 1, 2001 NEW
ASCP <sup>i</sup> (HTL)	October 1, 2014 NEW



## BACKGROUND ON BOC INTERNATIONAL CERTIFICATION

In 2006, the ASCP Board of Certification (BOC) began offering its examinations to eligible applicants educated outside of the U.S. The credential designation for these individuals is ASCP<sup>i</sup>. The BOC created ASCP<sup>i</sup> in response to global demand for a reliable healthcare system, to ensure public health and patient safety, and to promote high quality international laboratory practice standards in medical laboratories worldwide. All ASCP<sup>i</sup> applicants now take the same examination as their U.S. counterparts for all the international examinations.

From October 2007 to April 2020, the BOC published an International newsletter that focused on ASCP<sup>i</sup> and the BOC's certification outreach efforts around the world. However, as Covid-19 and the events of 2020 have made clear, the U.S. needs to work side-by-side with the international community in order to be successful into the 21st century. In that spirit, the BOC, starting with this issue of the BOC Newsletter, will begin publishing all international certification news alongside U.S. certification related news.

## PRELIMINARY FINDINGS OF THE 2020 BOC INTERNATIONAL SURVEY

Under the guidance of the International Credentialing Committee (ICC), the ASCP Board of Certification (BOC) staff created an 89-question survey, which was deployed via broadcast email and through the BOC's social media channels.

The survey opened on March 9, 2020 and closed on May 31, 2020. (The survey was kept active for an additional month due to COVID-19.) A total of 422 individuals from 44 countries of education participated. The purpose of the survey was to learn as much as possible about the countries where ASCP BOC certification is well established.

The audience for the survey was ASCP international certificants and foreign educated/foreign working U.S. certificants, international laboratory professionals that are not yet certified but may be eligible to take an ASCP international exam, as well as current ASCP BOC international volunteers, contacts, and advisors.

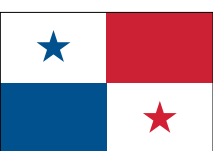
### General Findings:

- 36 percent of respondents have worked outside of their country of education.
- 58 percent of those who found employment outside of their country of education indicated that their BOC certification or qualification is what got them the job.

- 77 percent of respondents indicated that BOC certification is popular in their country of education.
- 83 percent of respondents are aware of the types of continuing education (CE) activities that can be used towards ASCP BOC's Credential Maintenance Program (CMP).
- 65 percent of respondents indicated that they prefer earning their CE credits online.
- 64 percent of respondents indicated that when they do attend a conference in-person it is mainly to earn additional CE.
- 413 out of 422 respondents use some form of social media—89 percent use Facebook, 61 percent use YouTube, 55 percent use Instagram, 38 percent use LinkedIn, 34 percent use WhatsApp, 31 percent use Twitter, and 07 percent use Snapchat.

### Next Steps

In 2021, the ICC, the Manager of BOC International Development & Social Media, and the Manager of Certification Measurement & Research will further analyze the collected data. The BOC plans to use this more robust analysis of the response data to improve its outreach and development efforts throughout the world.



### Uganda Continues Outreach Activities Despite COVID 19 Setbacks

Due to COVID-19, promotion of ASCP<sup>i</sup> activities in 2020 was limited to online outreach. Emmanuel Oluca, Chair of the Uganda Advisory Board, utilized Facebook for promoting ASCP<sup>i</sup> activities. Typically, this promotion involved Mr. Oluca sharing ASCP Board of Certification (BOC) posts, such as the Study Guide Question of the Week, to his 4,951 Facebook followers.

Mr. Oluca said that Uganda is still struggling with the effects of the COVID-19 pandemic, but added that there are currently three students preparing to take an intentional BOC examination. In August 2020, a recent graduate from Uganda sat for and passed the MLS(ASCP<sup>i</sup>) examination. There are currently nine individuals with education from Uganda who have earned MLS(ASCP<sup>i</sup>) certification.

### South Korea Holds an ASCP<sup>i</sup> Exam Course at Daegu Health College

Kyung Jin Cho, PhD, Chair of the South Korea Advisory Board, reported that the Korea Association of Medical Technologists (KAMT), which is an ASCP Board of Certification Collaborating Society, held several teleconferences between April and September 2020 where strategies for the promotion of ASCP<sup>i</sup> were discussed. Many of the Korea Advisory Board's planned events for spring and summer (such as ASCP<sup>i</sup> review courses) were canceled or rescheduled due to COVID-19. However, there was an MLT(ASCP<sup>i</sup>) exam preparation course held December 21-29, 2020, which was sponsored by the Department of Medical Technology, Daegu Health

College, for third year medical laboratory students. Course subjects included hematology, blood bank, microbiology, and chemistry.

### Panama Continues to Promote CLM(ASCP<sup>i</sup>) Certification

The Panama Advisory board held one webinar in May 2020 to help CLM(ASCP<sup>i</sup>) applicants better understand the application process. Fifty applicants attended. A second webinar was held in September.

Four new advisory board members have been appointed: Ingrid Moreno (Chair); Mercedes Cedeno (Co-Chair), Boris de Leon (TBD), and Connie Cuellar (Website Content Manager). The board met three times in 2020 and discussed how to continue supporting professionals despite a halt of certification due to COVID-related Pearson Vue site closure. They continue to utilize the board's social media channels to answer questions and promote international certification.

### ASCP<sup>i</sup> Awareness Campaigns in the Philippines

Between April and September 2020, the Philippines Advisory Board started developing an ASCP<sup>i</sup> awareness campaign, which includes utilizing virtual town hall programs, podcasts, and webinars. The Board is also sharing ASCP Board of Certification news, social media posts, and electronic publications through email, Facebook Messenger, and Viber. Other activities include working on finding solutions to the distribution of wall certificates and the development of digital education and blended learning platforms.



Daegu Health College students preparing for the MLT(ASCP<sup>i</sup>) exam



### Ecuador Meets with Universities and Organizations to Promote ASCP<sup>i</sup>

On February 14, 2020, Ecuador Advisory Board Chair H. Alvarez attended the Laboratory Medicine Congress, during which he met with clinical laboratory professors and students of two universities on the importance of the BOC international certification.

The Latin American Congress of Laboratory and Translational Medicine was held in Quito Ecuador on February 13-15, 2020, organized by Mr. Alvarez. During this event, Mr. Alvarez met with representatives from the following organizations regarding international certification: Association of Laboratory Professionals of Mexico, President of the Association for Biomedicine of Brazil.

In May, Mr. Alvarez provided a virtual meeting on international certification with colleagues at a local hospital (Baca Ortiz).

### Chile Advisory Board Chair Reaches out to Chilean Universities

Victor E. Silva, PhD, Chair of the Chile Advisory Board, is preparing to engage the Association of Universities of Medical Technology regarding nationwide use of the (ASCP)<sup>i</sup>CLM exam. However, due to COVID-19 related closures, these conversations may not take place until the third or fourth quarter of 2021.

### Highlight on Jordan

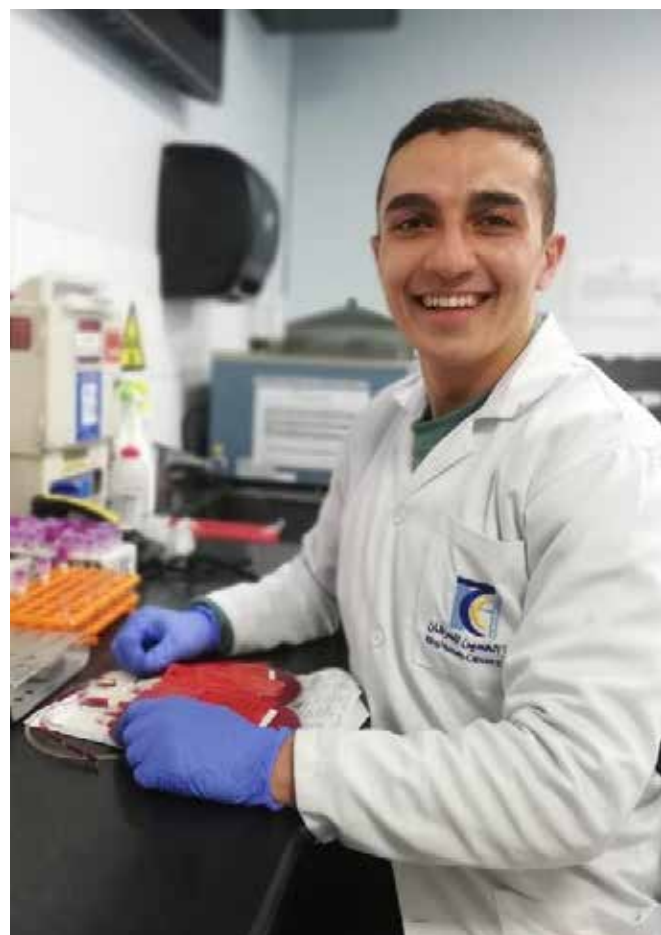
At the beginning of January 2020, the BOC Jordan Advisory Board started their early planning of the year-long activities to further promote ASCP BOC international certification in Jordan; targeting universities, community colleges, and workplaces (private labs and hospitals). But, being the odd year it is, 2020 did not hit a home run for the Jordan Advisory Board in terms of promoting ASCP BOC international certification. This was due to the long periods of lockdown especially during the first and second quarters of the year, the strict regulations prohibiting any sort of activities in public and private premises and the long distance learning for universities and community colleges that is still implemented till this very moment.

Hence, instead of the initial plan, the advisory board started targeting workplaces to encourage staff to apply for ASCP Board of Certification examinations, taking into advantage the change in staffing plans; as most Jordanian hospitals/labs adopted a minimizing staff contact plan, where staff work for longer hours for one week, and then take the following week/two weeks off. The staff, therefore, had time off that they could use to prepare for the

exam and this was convenient as they were able to prepare without applying for leave of absence.

Staff were enthusiastic and many started preparing for the certification; a few were successful in attaining certification and many are still planning to apply/re-apply for ASCP BOC certification this year (2021).

It is important to note that during 2020, there were many reported scheduling challenges from applicants especially since examination centers were closed for almost three months in Jordan (March-June) and due to the limited examination appointment availability. Another reported challenge was the difficulty in attaining professional training that is required for some ASCP examination routes, especially for recent graduates, since hospitals and laboratories all over the country halted training programs amid the pandemic. Nevertheless, the board is planning forward for a brighter 2021!



Newly certified Zaid Attieh, BB(ASCP)<sup>i</sup> of the King Hussein Cancer Center. Mr. Attieh used his off-work days to prepare for the ASCP<sup>i</sup> exam during the pandemic and passed the exam after his first attempt.





## Singapore Continues Building Capacity in the Face of COVID-19

January 23, 2021 was the first anniversary of the first confirmed COVID-19 index case in Singapore. As Singapore implemented strategic measures to control community spread, economic, social and learning activities gradually opened in phases. Learning activities were eased in Phase 1 (June 2020), with polytechnics opening partially to conduct lessons on campus and via home-based learning.

In September 2020, Temasek Polytechnic conducted a *Certificate in Phlebotomy* course, observing safe distancing and mandated temperature taking. Graduates of the course proceeded to purchase copies of the BOC Phlebotomy Study Guide 2nd Edition and applied for PBT(ASCP®) certification examination.

The Singapore Advisory Board were in discussions with the Biomedical Science Sector Coordination Team (BMS SCT) led by Republic Polytechnic on developing the Diploma in Applied Science (medical laboratory science). This program was successfully launched in October 2018, jointly offered by the five polytechnics in Singapore. Graduates from this program will be equipped with the knowledge and technical skills to support the needs of the biomedical science industry, particularly in medical laboratory science (Reference 1). This program is relevant for individuals interested in pursuing a career in clinical diagnostic laboratories or other related fields in biomedical research and technology.

The Diploma in Applied Science (medical laboratory science) is a multi-campus experience that combines the strengths of five polytechnics' curricula (Table 1). Structurally, the learning journey takes 2.5 years to complete, totalling 900 hours or 180 hours per modular certificate.

The format of this program is modular and successful learners will receive a Modular Certificate awarded by the relevant polytechnic. Upon completing all five modular certificates, the graduate will be awarded the Diploma in Applied Science (medical laboratory science). This educational approach offers flexibility to the learner's choice of training due to the "stackability" of the modular certificates.

A total of 18 students will graduate in April 2021 from this new program.

### References:

- Diploma in Applied Science (Medical Laboratory Science). Accessed 20 January 2021. [https://www.rp.edu.sg/ace/course-summary/Detail/diploma-in-applied-science-\(medical-laboratory-science\)](https://www.rp.edu.sg/ace/course-summary/Detail/diploma-in-applied-science-(medical-laboratory-science))
- Ending circuit breaker: phased approach to resuming activities safely. Accessed 20 January 2021. <https://www.gov.sg/article/ending-circuit-breaker-phased-approach-to-resuming-activities-safely>

Table 1: Five Modular Certificates for Diploma in Applied Science (Medical Laboratory Science)

Month/Year	October 2018	April 2019	October 2019	*April 2020	* October 2020
<b>Modular Certificate</b>	Modular Certificate in Haematology and Immuno-haematology	Modular Certificate in Medical Microbiology	Modular Certificate in Diagnostic Clinical Chemistry	Modular Certificate in Histotechnology and Cytotechnology	Modular Certificate in Molecular Diagnostics
<b>Institution</b>	Singapore Polytechnic	Temasek Polytechnic	Nanyang Polytechnic	Republic Polytechnic	Ngee Ann Polytechnic

\*Home-based learning for theory while the practical was conducted with safe distancing following the COVID-19 pandemic safety guidelines (Reference 2).

# 2020 EXAMINATION STATISTICS FOR ASCP AND ASCP<sup>i</sup> CREDENTIAL

<sup>1</sup> SMB began administering January 2018. \* Spanish language MLS. Blue shading denotes all candidates who took exam through CAAHEP/NAACLS eligibility routes. U.S. last updated: 1/26/2021. International last updated: 2/2/2021

Exam Type	First Year Certified	Mean	Standard Deviation	Range of Scores		Total # Taking Exam	Total Pass		Total Fail		First Time CAAHEP/ NAACLS Pass		2020 Certified
MLS	1931	479	114	100	907	4,726	3,527	75%	1,199	25%	3,014	83%	273,639
MLT	1969	506	129	100	999	2,877	2,258	78%	619	22%	2,094	84%	104,036
PBT	1989	549	118	184	971	1,628	1,453	89%	175	11%	262	92%	68,255
BB	1983	451	108	221	749	91	63	69%	28	31%			3,554
SBB	1954	420	113	132	743	143	79	55%	64	45%	53	74%	5,973
C	1948	397	107	110	710	187	90	48%	97	52%			5,663
SC	1954	425	122	256	758	25	12	48%	13	52%			1,861
CT	1957	531	100	275	736	93	82	88%	11	12%	78	90%	16,364
SCT	1959	593	59	499	697	9	9	100%	0	0%			727
CG	2009	444	97	187	676	119	75	63%	44	37%	16	73%	4,603
DLM	1989	374	97	174	556	29	10	34%	19	66%			1,112
DPT	2003	497	94	303	634	16	14	88%	2	13%			416
H	1971	483	137	191	802	67	51	76%	16	24%			3,967
SH	1968	447	118	187	732	36	22	61%	14	39%			2,816
HT	1948	457	126	132	791	465	299	64%	166	36%	146	77%	26,342
HTL	1980	455	98	150	700	317	229	72%	88	28%	91	85%	5,280
M	1948	425	118	114	728	194	115	59%	79	41%			6,816
SM	1953	387	87	243	582	39	15	38%	24	62%			3,325
MB	2003	473	121	100	829	495	366	74%	129	26%	71	92%	5,759
SMB <sup>1</sup>	2018	302	101	146	579	53	6	11%	47	89%			15
MLA	2016	391	95	215	656	62	22	35%	40	65%	2	40%	176
PA	2005	583	86	337	803	141	137	97%	4	3%	132	99%	2,689
SCYM	2017	482	144	255	872	54	36	67%	18	33%			1,006
Other <sup>2</sup>													25,532
TOTAL U.S						11,866	8,970	76%	2,896	24%	5,959	84%	569,926
BB	2015	457	110	241	704	30	22	73%	8	27%			71
SBB	2015	277	81	141	396	13	0	0%	13	100%			13
C	2015	405	123	100	634	33	15	45%	18	55%			128
SC	2015	371	105	150	536	13	6	46%	7	54%			42
CG	2015	396	148	227	572	6	3	50%	3	50%			34
CT	2015	333	119	196	413	3	1	33%	2	67%			22
SCT	2015	--	--	--	--	--	--	--	--	--			1
CTgyn	2010	472	102	387	586	3	2	67%	1	33%			68
SCYM	2017	394	86	333	454	2	1	50%	1	50%			17
H	2014	455	175	124	774	20	13	65%	7	35%			124
SH	2015	425	123	274	689	14	7	50%	7	50%			43
HT	2015	485	152	137	678	11	9	82%	2	18%			29
HTL	2015	407	107	166	621	35	18	51%	17	49%			126
M	2015	405	123	130	650	30	17	57%	13	43%			152
SM	2015	379	95	222	569	14	6	43%	8	57%			35
MB	2007	412	103	175	691	39	21	54%	18	46%			373
SMB1	2018	239	41	175	290	9	0	0%	9	100%			3
MLS	2006	439	154	100	814	1,645	890	54%	755	46%			12,750
CLM*	2009	313	84	201	492	19	3	16%	16	84%			48
MLT	2006	377	134	105	672	100	47	47%	53	53%			655
PBT	2007	604	122	361	787	33	30	91%	3	9%			358
TOTAL International						2,072	1,111	54%	961	46%			15,092

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