



ASCP
BOARD OF
CERTIFICATION

ASCPi- International Certification for Laboratory Professionals



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檢驗醫學部
高雄醫學大學附設中和紀念醫院

Why?

volunteer@ascp.org

ASCP
American Society for
Clinical Pathology
Board of Certification

Outline of talk

- ▣ Introduction
- ▣ Eligibility
- ▣ Documentation
- ▣ Application process
- ▣ Scheduling
- ▣ Studying
- ▣ Exam day
- ▣ Results and certificate



INTRODUCTION



INTRODUCTION

ASCP Board of Certification (ASCP BOC)

- ▣ Founded in 1928 by the **American Society for Clinical Pathology** (ASCP)
- ▣ Changed name from “**Board of Registry**” to “**Board of Certification**” after joining with the former National Credentialing Agency (NCA)
- ▣ Recognized as the most influential leader in the field of certification of medical laboratory professionals in the world
- ▣ BOC has certified **>460,000** professionals in over **25 categories** since issuing its first certificate in 1930



ASCPⁱ Origins

- ▣ **February 2002**, the Globalization Taskforce was created in response to a major organizational goal to develop international collaboration and enhance quality and recognition of laboratory professionals internationally through BOR certification
- ▣ **Late 2005** the ASCP Board of Governors (BOG) approved international certification with the designation **ASCPⁱ** (superscript “**i**” indicating international). - ASCP BOR launched the first **ASCPⁱ** exams in Seoul, South Korea



International Certification – ASCPⁱ Purpose

- ▣ Designed 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**
- ▣ **Confirms** that an individual has demonstrated that s/he possesses the **crucial knowledge** to perform essential tasks within **all areas of the medical laboratory**



International Certification – ASCPⁱ Infrastructure

- ▣ **International Ambassadors**
 - Create awareness of international certification options through ASCPⁱ
- ▣ **International Consortium for ASCPⁱ**
 - Composed of Advisory Boards, Collaborating Societies, Professional Organizations, Laboratories and Educational Institutions
- ▣ **Advisory Boards**
 - Aid in establishing and **promoting** ASCPⁱ in-country or within their region
 - Aid in verification of applicant credentials and confirm legitimacy of training institutions/laboratories



Representative Fany Fan Lead Ambassador Lee H. Hilborne	Chris Wong Arnold Foo Hernia Lam Gina Leung Alex Leung Marianne Leung Esco Yau	Hideo Sakamoto Kazuhiko Minura Hiromitsu Yokota	Kyung Jin Cho Tae Un Kim Young Keon Kim Moon Jung Shinn Hyo Chan Kang Jang Ho Lee Kwang Hyun Ryu Man-Gil Yang Chen Hee Kim	Tsu-Lan Wu Yih-Hsin Chang Kuo-Chen Tiao Shu-Chu Shieeh Chun-Nan Lee Hong-Mo Lee Chuan-Liang Kao	International Ambassador Program			
Philippines Office *Regional Representative Lead Ambassador Yih-Hsin Chang	Advisory Boards Philippines Agnes B. Medenilla Marian M. Tandingan Erlinda C. Pijuan Solided L. Bautista Nini F. Lim Lela M. Elezanto Lue Mar Lou	Singapore Ong Siew Kim Susan Lim Tsui Tsui Woo Wee Hong Koh Tze Yuen Joel Lee Abin Poh Yee Hin	Thailand Rachana Santyanont Palanee Amaraeond Sirirat Tereakul Pornsiri Pongsuchart	International Liaison: Kathleen Becan-McBride				
Delhi Office *Regional Representative Lead Ambassador Faisal Ibrahim	Advisory Egypt Hassan Cecilia Mohamed Hassan David Mohamed	國際認證諮詢委員會(台灣): 吳竹蘭理事長 李君男教授 李宏謨校長 高全良教授 范秀琴總醫檢師 曹國倩主任 張懿欣教授 謝淑珠教授			Malta Hamid Al-Jafar Yam Al-Haj Ali Amr Al-Salama McPaul I.J. Okoro	Nigeria Eugene I. Ikoh Jafar Tapfidi Lawrence C. Okoro McPaul I.J. Okoro	Saudi Arabia Nikolos Chantirantorn Abdullah Al-Angary Hassan Salem Barnellah Victoria Rami Leo	U. A. E Ahmad Sultan Samir Awadallah Mouza Al-Sharhan Sumeha Sahni Soria Sari Hala Ibrahim Farah Abdulrahman Isam Maphoud Rana Nabulsi
European Office *Regional Representative Lead Ambassador Gene Siegal	Advisory Greece Gloria Nikolaos Basil Petr Anna Kris Eli Ioana Zoe	Turkey In Development						
Panama Office Regional Representative Alexandra Dölleran Lead Ambassador Cynthia Johns	Advisory Boards Chile Juan Carlos Araya Juan José Díaz Peña María Soledad Vidal Bunhos Macarena López María Lucinda Núñez	Ecuador Henry Alvarez Juan Antonio Cabrera Chacón Lucía Ulloa	Jamaica Marcia Dean Sonia Richards- Malcolm Meredith Williams Janice Wiser Warren Williams Sharon Thompson Kiddo Paul Oyles	Panama Gloria de Pinzón Daly de Wong Noia Ortiz de Monaco Gisel M. De Diaz Louanne Pearson Mauricio Peres Nelson Cedeño	Peru Silvia Flores Segundo León Fernando Palacios José Antonio Paredes Carlos Penabito Patricia Quintana	Trinidad Harry Narine		
Additional Experts	International Ambassadors	Discipline Specific Experts	Public Health Experts	International Business Experts	International Standards Experts	Other Experts As Needed		

ASCPⁱ Certification

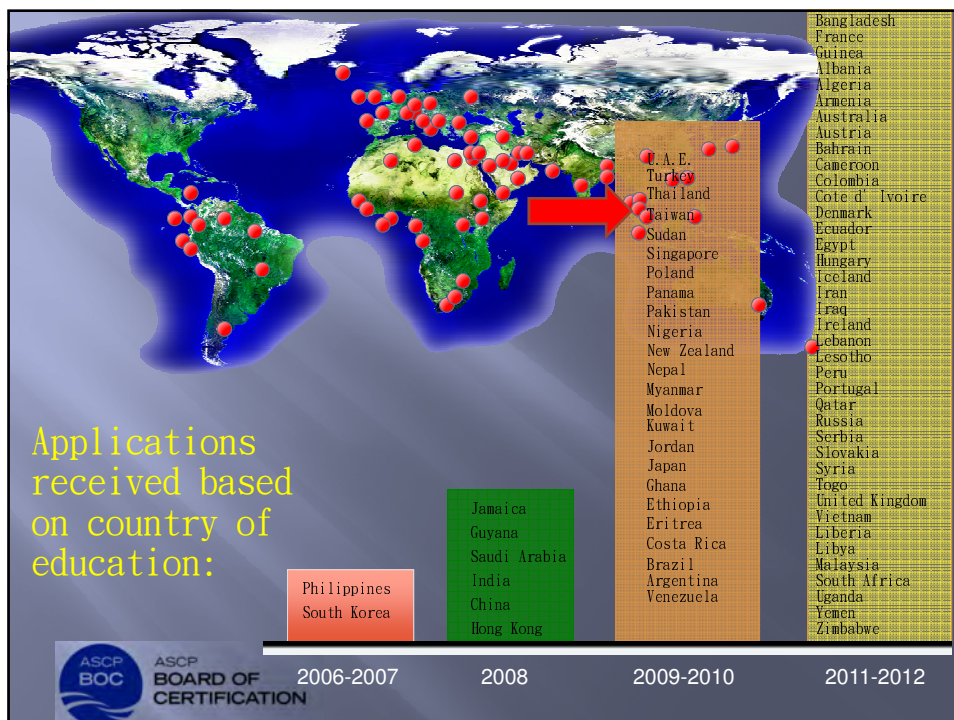
- Only extended to qualified applicants who meet a high standard similar to that required of U.S. ASCP examinees
- **International Categories currently available**
 - Int. Medical Laboratory Technician, **MLT(ASCPⁱ)**
 - Int. Medical Technologist, **MT(ASCPⁱ)**–Available in Spanish!
 - Int. Technologist in Molecular Biology, **MB(ASCPⁱ)**
 - Int. Phlebotomy Technician, **PBT(ASCPⁱ)**
 - Int. Technologist in Gynecologic Cytology, **CTgyn(ASCPⁱ)**
- **International Categories in development**
 - International Technologist in Chemistry, **C(ASCPⁱ)**
 - International Technologist in Microbiology, **M(ASCPⁱ)**
 - International Technologist in Cytotechnology, **CT(ASCPⁱ)**



ASCP[®] Approved Worldwide



In May 2009, the ASCP BOC International Certification Committee approved opening international certification to applicants from around the world. Today, if you meet the requirements for certification, you may sit for the ASCP BOC examination, no matter what your country of education and clinical experience.



APPLICATION PROCESS



International Certification – ASCPⁱ The Application Process

Applicants may complete application information using the ASCP International website and pay online by credit card or via mail with check or money order, or by wire transfer

Application fees*:

- ▣ **PBT(ASCPⁱ) - \$125 USD**
- ▣ **CTgyn(ASCPⁱ) - \$125 USD**
- ▣ **MLT(ASCPⁱ) - \$175 USD**
- ▣ **MT(ASCPⁱ) - \$200 USD**
- ▣ **MB(ASCPⁱ) - \$200 USD**

* Reduced exam fees of \$95 USD available to applicants in designated resource limited countries and are automatically applied



Apply for ASCP Board of Certification (BOC) Examination

You may ascp.boc.org category or exam in a three month period. Please select one:

- ☐ U.S. Certification (or U.S. Certification and State Licensure Combined)
- ☐ State Licensure Examinations Only
- ☐ U.S. Qualification (QCM, SMC, QJ, QLS)
- ☒ International Examination
- ☐ International Qualification (ILO)

Individuals wanting to submit online applications for U.S. Certification examinations must complete the process by credit card.

Individuals wanting to submit checks or money orders for payment must download the [Certification application form](#), complete the form and mail it in with a check or money order to:

Board of Certification
3335 Eagle Way
Chicago, IL 60678-1033

[Return to ASCP Home Page](#)

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<http://www.ascp.org/services/SelectCertification.aspx>

ELIGIBILITY

- ▶ International Medical Technologist, MT(ASCPⁱ)
- ▶ International Medical Laboratory Technician, MLT(ASCPⁱ)
- ▶ International Phlebotomy Technician, PBT(ASCPⁱ)
- ▶ International Technologist in Molecular Biology, MB(ASCPⁱ)
- ▶ International Technologist in Gynecologic Cytology, CTgyn(ASCPⁱ)

<http://www.ascp.org/Board-of-Certification/International/Certification#tabs-1>



To be eligible for this examination category, an applicant must satisfy the requirements of at least one of the following routes:

- **Route 1:** ASCPⁱ certified as a technologist (MT, CTgyn) AND a baccalaureate degree from an accredited/approved** educational institution, OR
- **Route 2:** Baccalaureate degree from an accredited/approved** educational institution AND successful completion of an accredited/approved** diagnostic molecular science program. Academic education or molecular science program must include courses in biological science and chemistry, OR
- **Route 3:** Baccalaureate degree from an accredited/approved** educational institution AND successful completion of a minimum two-year Medical Laboratory program**. The training program must include Blood Banking (Immunohematology), Chemistry, Hematology, and Microbiology, OR
- **Route 4:** Baccalaureate degree in any biological science or chemistry from an accredited/approved** educational institution AND one year acceptable experience in a molecular biology laboratory* in an accredited/approved*** laboratory facility, OR
- **Route 5:** Graduate level degree (Master's, Doctorate) in any biological science or chemistry from an accredited/approved** educational institution AND six months acceptable clinical laboratory experience in molecular diagnostics in an accredited/approved*** laboratory facility.



DOCUMENTATION



International Certification – ASCPⁱ The Application Process

- ▣ **Transcript Evaluation:**
 - ▣ The first step for many applicants from foreign countries applying for an international examination is to have their transcript evaluated by an ASCP approved evaluation agency
- ▣ **Transcripts must include:**
 - ▣ Subject breakdown
 - ▣ Statement of equivalence
- ▣ A listing of approved agencies is available from the ASCP International website



Taiwan

Verify your academic education

HIGHER EDUCATION/ POST-SECONDARY EDUCATION	
What to Submit Original or photocopy of a Transcript Evaluation by an approved evaluation agency	How to Submit Email, Fax or Mail
OR	
Academic transcripts issued in English by the institutions attended for post-secondary programs of study <i>e.g. Associate, Bachelor, Master, PhD</i>	Mail directly from the institutions attended in an envelope bearing the institution's seal or stamp and/or an appropriate signature across the sealed flap.
Notarized photocopy of academic transcripts issued by institution(s) attended for post-secondary program(s) of study	Email, Fax or Mail

SECONDARY EDUCATION (if applicable)

If you have completed one or more years of post-secondary study, you do not need to submit any secondary school documents with your application.

What to Submit Academic transcripts issued in English by the institution attended	How to Submit Mail directly from the institution attended in an envelope bearing the institution's seal or stamp and/or an appropriate signature across the sealed flap.
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 American Society for
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日期: Tue, 1 Mar 2011 08:34:26 -0600
寄件者: "ASCPINTERNATIONAL" <ascpinternational@ascp.org>
收件者: "u9581002" <u9581002@cc.kmu.edu.tw>
主旨: RE: Customer No:25400308 -Application form

完全表頭

詳列附件

Dear Applicant:

I am sorry to inform you but all application fees are non-refundable. Applicants are urged to meet all eligibility requirements before submitting their application, as application fees are non-refundable. When you submitted your online application you had clicked off a checkbox which states the following:

"I have carefully and completely reviewed the [Procedures for Examination and Certification](#) along with the eligibility requirements for the certification category I have chosen to ensure that I have met all the requirements as specified. I understand that application fees are non-refundable (you must agree to this statement before continuing)."

I understand that application fees are non-refundable

Please view the ASCP BOC International Certification Procedures online at <http://www.ascp.org/FunctionalNavigation/certification/International/InternationalCertificationProcess.aspx>.

Thank you and best regards,

 American Society for
Clinical Pathology
Board of Certification

Name: [X] Yoo Young (尹 正 容)
School of Technology for Medical Sciences
Daegu University October 2000
Date Confirmed June 2000
Honorary Promoted in Degree Conferral B. S. in Technology for Medical Sciences.
The following degree is certified as correct according to the records of the university
Date: Mar 09, 2011

[illegible]

by Tzu-Kiang 吳 志 強

Academic Year (1988-1989)	Fall Semester		Spring Semester	
	Credits	Grade	Credits	Grade
Biochemical Principles in Medical Technology	-	-	3	BB
Biotechnology in Clinical Technology Lab.	-	-	3	BB
Microradiology & Immunology Practicum	4	65	-	-
Microradiology Practicum Lab.	4	80	-	-
Introduction to Pathology	3	76	3	78
Hematology Laboratory	-	-	3	78
General Clinical Microbiology (Including Bacteriology)	-	-	3	79
Clinical Biochemistry	3	82	-	-
Clinical Hematology	3	82	-	-
Clinical Blood Banking	3	93	-	-
Clinical Molecular Biology (Including Laboratory)	3	93	3	93
Clinical Microbiology (Including Bacteriology)	3	93	-	-
Medical Genetics Practicum - Seminar	1	84	-	-
Clinical Microbiology (Including Bacteriology)	-	-	3	87
Histotechnology, Stainings and Practice	-	-	3	88
Clinical Microbiology (Including Parasitology and Tissue Tech.)	-	-	3	93
Clinical Microbiology (Including Parasitology and Practice)	3	93	-	-
Microimmunology	3	93	-	-
Clinical Microbiology (Including Parasitology)	3	93	-	-
Clinical Toxicology	2	82	3	81
Pharmacology	3	82	3	82
Total Credits	20	92.3	19	81
Grand Grade	-	-	-	86
Academic Year 1989-2000:				
Clinical Microbiology Practicum	-	-	3	AB
Clinical Microbiology Practicum Lab.	-	-	3	AB
Clinical Biochemistry Practicum	A	80	-	-
Clinical Microbiology (Including Bacteriology, Histotechnology, Stainings and Practice)	3	93	-	-
Clinical Microbiology (Including Parasitology and Practice)	3	93	-	-
Clinical Hematology & Immunology Practice	3	88	-	-
Clinical Hematology Practice	3	88	-	-
Blood Bank Management	3	88	-	-
Clinical Blood Banking	3	93	-	-
Clinical Toxicology	2	82	-	-
General Discussion for Clinical Microbiology	-	-	3	88
General Discussion for Clinical Hematology	-	-	3	88
General Discussion for Clinical Pharmacology & Therapeutics	-	-	3	88
General Discussion for Clinical Microbiology & Immunology	-	-	3	79
Seminars for Special Student	-	-	3	88
Overall Grade	12	86.6	15	82.3
GRAND AVERAGE GRADE	-	-	-	84.5

Remarks: 60 is the passing grade.
 100-80 Grade A, 79-70 Grade B, 69-60 Grade C, Below 59 Grade D.
 On August 1, 1998, the Kaohsiung Medical College was officially approved to change
 its name to Kaohsiung Medical University.

KAOHSIUNG MEDICAL UNIVERSITY
KAOHSIUNG, TAIWAN, REPUBLIC OF CHINA

February 22, 2011

To Whom It May Concern :

This is to certify that **Er Tze Kiong (余志強)**
graduated from the Graduate Institute of Medicine, Kaohsiung
Medical University in June, 2003 and received the degree of
Master of Science.

Ynn - Wen chong

Inn-Wen Chong, MD, FCCP
Dean of Academic Affairs
Kaohsiung Medical University

第 1 頁 / 共 1 頁

International Certification – ASCPⁱ

The Application Process

- Applicants applying through an eligibility route that is based on experience will be required to submit corresponding documentation
 - **Reference Form:** Completed by the applicant's supervisor indicating verification of the applicant's experience/training
- AND
- **Letter of Authenticity:** A letter from the applicant's supervisor signed/dated and on official letterhead confirming they completed the reference form



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EMPLOYMENT CERTIFICATE

Jun 10, 2011


To Whom It May Concern:

This is to certify that Mr. Tze-Kiong Er (余志強),
was born on 14 October 1977, Malaysia, (ID No. EC00073564). The
applicant has been an employee of Kaohsiung Medical University Chung-
Ho Memorial Hospital since 14 April 2003. Currently Mr. Er is a Medical
Technologist of the Laboratory Medicine.


Sincerely Yours,

Chen-Guo Ker, M.D., M.P.H., F.I.C.A.S.
Professor of Surgery
Vice Superintendent
Kaohsiung Medical University
Chung-Ho Memorial Hospital
Kaohsiung 80756 Taiwan





ASCP
BOARD OF
CERTIFICATION



INTERNATIONAL TECHNOLOGIST IN
MOLECULAR BIOLOGY
WORK EXPERIENCE DOCUMENTATION FORM
(Routes 4 & 5)

PART I (To be completed by Applicant)

Applicant's Name: _____
 Address: _____
 City/State: _____

PART II (MUST be completed and signed by Laboratory Management or Employer in order to be acceptable. All eligible work experience must be completed outside the United States, outlying U.S. territories and Canada.)

SUBJECT: Verification of Experience for Examination Eligibility

This individual, identified above, has applied for Board of Certification Technologist in Molecular Biology examination. In order to establish this applicant's eligibility for certification, the following information is necessary:

1. Please complete: **EMPLOYMENT** (including on-the-job training)

Date employment started in Molecular Biology: Month _____ Day _____ Year _____
 Date employment ended in Molecular Biology: Month _____ Day _____ Year _____
 How many hours per week in Molecular Biology? _____

2. **Directions:** Please review the experience of this applicant. Please state an **X** by each area in which this applicant has demonstrated proficiency under your supervision.
 (NOTE: Experience is required in 1 of the 5 areas listed below.)


☐ Infectious Disease (i.e. molecular microbiology, molecular organism typing)
☐ Hematology/Oncology (i.e. hematologic lymphoid neoplasms/neoplasia)
☐ Genetics/Genomics (i.e. mutations, inherited gene disorders, pharmacogenomics)
☐ Histocompatibility (i.e. DNA-based tissue typing)
☐ Solid Tumors (i.e. tumor gene markers)
☐ Molecular Identity Testing (i.e. bone marrow engraftment, paternity, forensic)

3. By signing this form, I as Laboratory Management or Employer verify that this applicant has performed satisfactorily in the Molecular Biology areas checked on this form.

(Please Print) LABORATORY MANAGEMENT OR EMPLOYER NAME: _____ TITLE: _____
 LABORATORY MANAGEMENT OR EMPLOYER ORGANIZATION: _____ CITY: _____
 LABORATORY MANAGEMENT OR EMPLOYER ADDRESS: _____ INSTITUTION TELEPHONE NUMBER: _____
 INSTITUTION: _____
 INSTITUTION ADDRESS: _____

BE SURE TO INCLUDE A LETTER OF AUTHENTICITY FROM YOUR LABORATORY MANAGEMENT OR EMPLOYER WITH THIS WORK EXPERIENCE DOCUMENTATION FORM. THE LETTER OF AUTHENTICITY MUST BE PRINTED ON ORIGINAL LETTERHEAD. IT MUST STATE THAT THE WORK EXPERIENCE DOCUMENTATION FORM WAS COMPLETED, SIGNED AND DATED BY YOUR LABORATORY MANAGEMENT OR EMPLOYER. WORK EXPERIENCE DOCUMENTATION FORMS RECEIVED WITHOUT LETTERS OF AUTHENTICITY ARE UNACCEPTABLE. PLEASE MAIL, FAX, OR EMAIL THESE FORMS TO ASCP INTERNATIONAL.

Management is defined as someone in a management role who can verify technical experience.



American Society for
Clinical Pathology
Board of Certification

ASCP BOC International, 33 W. Monroe St., Suite 1600, Chicago, IL 60603
ascpinternational@ascp.org Phone: +1-312-541-4473 Fax: +1-312-541-4845

SAMPLE

DATE

ASCP BOC International
33 W. Monroe St., Suite 1600
Chicago, IL 60603-5617

Dear ASCP BOC International :


I, INSERT EMPLOYER/PROGRAM OFFICIAL'S NAME HERE, verify that I have completed the attached reference form for INSERT APPLICANT'S NAME HERE.

Sincerely,

(SIGNATURE)

EMPLOYER/PROGRAM OFFICIAL'S NAME

COMPANY LOGO
COMPANY NAME



American Society for
Clinical Pathology
Board of Certification

International Certification – ASCPⁱ

The Application Process

- Once received, applications will be processed within **30-45** days
- An **admission letter** will be sent electronically to the applicant
- The applicant will have approximately **3** months to take the examination
- The applicant schedules a **convenient day/time** to sit for the exam



ASCP American Society for Clinical Pathology Board of Certification
April 15, 2011

The Kongs Er
No100 Teyan 1st Rd
Kacheng 807 Taiwan
rnskong@icloud.com.tw

EXAMINATION CATEGORY: IMB
CANDIDATE ID NUMBER: ASCP101326
EXAMINATION PERIOD: May 01, 2011 through July 30, 2011

SCHEDULING YOUR EXAMINATION APPOINTMENT:

To schedule your examination appointment via the internet, visit www.pearsonvue.com/ascp.

Attention first-time PearsonVue site users: If you have never used the PearsonVue site before, you will need to [create a new account](http://www.pearsonvue.com) before you can sign in and register. Please note that your ASCP Candidate ID Number listed above is not your PearsonVue username or password.

You may also call the appropriate Pearson VUE Call Center listed below based on the location in which you intend to take your exam:

Americas Region	+1 888 857 0822 or +1 952 681 3872
Asia-Pacific Region	+60 38319 1085
Europe, Middle East, Africa (EMEA) Region	+44 161 855 7455

Pearson VUE Call Centres are open Monday-Friday and closed on local holidays. For further information visit www.pearsonvue.com/ascp.

Call as soon as possible to schedule your appointment as space may be limited. After scheduling your appointment, Pearson VUE will email a confirmation letter to you confirming your scheduled appointment date, time, test center location, and directions to the test center. **Your appointment date must be in your examination period listed above.**

YOU MUST BRING THE FOLLOWING ITEMS WITH YOU TO THE TEST CENTER:

A copy of this Admission Letter
Two forms of Personal Identification:
Primary: Passport or local government-issued ID with photo and signature
Secondary: One other form of personal ID

Please note that the name on the passport or local government-issued ID and the secondary ID must match the name on the admission letter and both forms of identification must be valid (not expired).

ASCP American Society for Clinical Pathology Board of Certification

SCHEDULING



Scheduling, Rescheduling, and Cancellation Policies

- ▣ Scheduling an appointment for testing
- ▣ Rescheduling appointments
- ▣ Cancellation policy
- ▣ Taking the examination



International Certification – ASCPⁱ

International Testing Centers

- ▣ ASCPⁱ examinations are administered at ASCP-contracted **secure** worldwide Pearson VUE Centers. International applicants may take the exam **at any Pearson Center** offering ASCP examinations



International Certification – ASCPⁱ International Testing Centers

- ▣ **Exams are available year-round!**
- ▣ Applicants schedule test day/time to take the examination directly with the Pearson VUE Center they wish to use
- ▣ International applicants must provide **2 forms of valid identification** and **an admission letter**
- ▣ Applicants are **fingerprinted** and **photographed** at the testing site



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[Home](#) | **Test Taker Services** | [Test Program Solutions](#) | [Become a Test Center](#)

Locate a Test Center: ASCP

1. Locate a test center near you by defining the search criteria below and then click Search. [View Search Tips](#)

Display distance format: **Miles**

Find the closest: **5 centers**
* Country: **Taiwan**
City:

2. View test center address, telephone number, and directions by clicking on the test center name.

Test Center	**Distance	City	State/Province	Country
Jing Tian International Group	84.8	Kaohsilung		Taiwan
Pearson Professional Centers-Taipei, Taiwan	100.1	Taipei		Taiwan
Pearson Professional Centers-Hong Kong	444.4	Hong Kong		Hong Kong
Pearson Professional Centers-Guangzhou, China	491.3	Guangzhou	Guangdong	China
Pearson Professional Centers-Shanghai North, China	511.4	Shanghai	Shanghai	China

**Distance is a straight line calculated from the center point of your search criteria and does not reflect driving distance.

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**American Society for
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Board of Certification**

STUDYING

**American Society for
Clinical Pathology
Board of Certification**

International Certification – ASCPⁱ

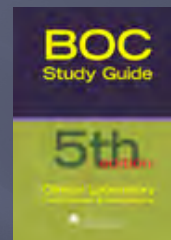
About the ASCPⁱ Examinations

- ▣ **All exams are currently administered in English**
 - *The MT(ASCPⁱ) exam is now available in Spanish*
- ▣ **Exams do not include questions related to U.S. policies and procedures/governmental regulations** (e.g. OSHA, CLIA, HIPAA)
- ▣ **Safety questions** specific to U.S. replaced with international safety questions based on **ISO standards**



ASCPⁱ Examination Study Materials

- Content outlines for MT, MLT, MB, CTgyn and PBT
- Online Practice tests
- *Board of Certification Study Guide: Clinical Laboratory Certification Examinations*



International Certification – ASCPⁱ The Exam Process

- ▣ **Format:** 100 multiple choice questions (80 questions for PBT, 50 for CTgyn)
- ▣ **Duration:** 2½ hours to complete the examination (2 hrs PBT, 1.5 hours CTgyn)
- ▣ **Design:** Computer Adaptive Testing (CAT)
 - **Not Computer Based Testing**
 - **CAT is a testing method that adapts questions to the examinee's ability level**
 - **Competence is not based on the absolute number of correct responses but on the level of difficulty of the questions answered correctly**



International Certification – ASCPⁱ The Exam Process

EXAMPLE of CAT:


1. $2+2=4$ (Correct)
2. $9 \times 9=81$ (Correct)
3. $114/4=27.5$ (Incorrect)*

*After an incorrect answer the test will revert back to an easier question

4. $8 \times 7=56$ (Correct)

Essentially, you can gauge your success on the test by the difficulty of the questions being asked



I. MOLECULAR SCIENCE (25-30%)	D. Other Techniques
A. Nucleic Acid Chemistry	<ol style="list-style-type: none"> 1. Denaturing gradient gel 2. Denaturing HPLC 3. Heteroduplex and single strand conformation analysis 4. Melting curves analysis
<ol style="list-style-type: none"> 1. Sugars 2. Bases 3. Chemical structure 4. Associated proteins 5. Mutations B. Basic Molecular Theory <ol style="list-style-type: none"> 1. Replication 2. Transcription 3. Exons, introns, and splicing 4. Translation 5. Chromosome structure C. Biochemical Reagents <ol style="list-style-type: none"> 1. Polymerase enzymes <ol style="list-style-type: none"> a. DNA b. RNA 2. Endo and exonuclease enzymes 3. Reverse transcriptase 4. DNA ligase 5. Assay development and design D. Genetics <ol style="list-style-type: none"> 1. Human 2. Microbial 	III. LABORATORY OPERATIONS (15-20%)
II. MOLECULAR TECHNIQUES (35-40%)	A. Laboratory Design
A. Separation and Detection <ol style="list-style-type: none"> 1. Electrophoresis <ol style="list-style-type: none"> a. Gel b. Capillary 2. Blotting and probing procedures 3. Probe hybridization 4. In-situ hybridization 5. Nucleic acid purification B. Nucleic Acid Amplification <ol style="list-style-type: none"> 1. Polymerase chain reaction (PCR) 2. PCR variations (e.g., real-time, nested, multiplex) 3. Branched DNA (bDNA) technology 4. Sequence based (NASBA) 5. Transcription-mediated technology (TMA) 6. Strand displacement amplification (SDA) 7. Other (e.g., hybrid capture, ligase chain reaction, cleavage invader) C. DNA Sequence Analysis <ol style="list-style-type: none"> 1. Chain terminators 2. Manual gel sequencing 3. Automated sequence analyzer 4. Restriction fragment length polymorphism (RFLP) 5. Other (e.g., pyrosequencing) 	B. PCR Product Contamination <ol style="list-style-type: none"> 1. Prevention 2. Monitoring and detection 3. Elimination C. Quality Assurance <ol style="list-style-type: none"> 1. Specimen collection, preparation, and storage 2. Reagent selection, preparation, storage, and disposal 3. Assay selection, validation, documentation, result interpretation, and calculation 4. Quality control and proficiency testing D. Guidelines and Regulations <ol style="list-style-type: none"> 1. Analyte specific reagent (ASR) and CPT coding 2. CLIA, JCAHO, CAP, CLSI, FDA E. Personnel <ol style="list-style-type: none"> 1. Continuing education 2. Competency F. Safety
	IV. APPLICATIONS OF MOLECULAR TESTING (15-20%)
	A. Infectious Disease B. Hematology/Oncology C. Genetics D. Other <ol style="list-style-type: none"> 1. Histocompatibility 2. Genetic identity (paternity, forensic, and engraftment) 3. Pharmacogenomics
	<p><i>All Board of Certification examinations use conventional units for results and reference ranges.</i></p> <p><i>You will need to bring a non-programmable calculator with log function to the examination.</i></p>
	END OF CONTENT GUIDELINE

International Certification – ASCP[®] The Exam Process

Exam Results

- ❑ Immediately upon completion, the examinee can electronically view their preliminary **pass/fail** result
- ❑ Examinees will receive their score report via email **within 10 business days**
- ❑ Unsuccessful examinees receive a subject breakdown
- ❑ Successful examinees receive their certificate in approximately **60** business days



RESULTS AND CERTIFICATE



1000 West Main Street, Suite 1000
Salt Lake, UT 84103-4017

TEL: 801.462.0001
FAX: 801.462.0002
www.ascp.org

2009

Dear Certificatee:

It is a pleasure to inform you that you have passed the Board of Certification computer examination. Your examination scores are attached. Your certification number is listed on your score report.

Your official Certificate will be sent to you under separate cover **approximately two months after receipt of your results**. Please contact our office immediately if your e-mail or mailing address changes to ensure that your certificate is forwarded to the correct address.


Please note that your name will appear on your certificate as printed on the attached score report. If there is a name change/correction received after your scores have been forwarded to you, e-mail ASCPinternational@ascp.org. There will be a \$15.00 charge for reprinting your certificates.

Congratulations and best wishes for your continued success.

Sincerely,

Certification Activities
ASCP Board of Certification/ASCP International





**ASCP
BOARD OF
CERTIFICATION**

93 West Monroe Street, Suite 1600
Chicago, Illinois 60613-5617
T 312.541.4999
F 312.541.4845
www.ascp.org

EXAMINEE PERFORMANCE REPORT
INTERNATIONAL TECHNOLOGIST IN MOLECULAR BIOLOGY

8/1/2011

Tze Kiong Er
No100 Tzyou 1st Rd
Kaohsiung 807
Taiwan


CUSTOMER ID: 25400308

MB(ASCP[®])25


THIS REPORT PROVIDES INFORMATION CONCERNING YOUR EXAMINATION PERFORMANCE.
A SCALED MINIMUM PASS SCORE (MPS) OF 400 ON THE TOTAL TEST WAS REQUIRED
TO PASS.

YOUR PERFORMANCE SUMMARY FOR THE TOTAL IMB EXAMINATION TAKEN ON 7/29/2011

MPS	YOUR SCORE	STATUS
400	[REDACTED]	PASS



American Society for
Clinical Pathology
Board of Certification



**ASCP
BOARD OF
CERTIFICATION**

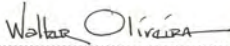
Hereby Certifies That

Tze Kiong Er, MB(ASCP[®])


Having Successfully Fulfilled the Requirements is Certified as a

International Technologist in Molecular Biology


Awarded July 2011



Chair, ASCP Board of Certification



**ASCP
BOARD OF
CERTIFICATION**



American Society for
Clinical Pathology
Board of Certification



International Certification – ASCPⁱ Credential Benefits

- ▣ **Increases recognition** from employers, peers and other healthcare professionals
- ▣ **Adds value** to the laboratory accreditation process
- ▣ **Opens doors** for foreign educated and trained lab personnel with an international credential to become **more competitive** when seeking job placement at home or abroad



ASCP/ASCPⁱ Recent News Items

- ▣ More than 4,473 international applications received from 72 countries to date*
- ▣ Over 2,484 certifications awarded from 49 countries to date*

*(as of February 2012)



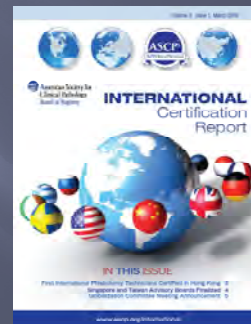
CMP: Certification Maintenance Program

- ▣ Beginning Jan. 1, 2012, the Certification Maintenance Program will be mandatory for all new ASCPⁱ international certificants.
- ▣ Individuals who became certified in all international certification categories beginning Jan. 1, 2012, will be required to participate in the **International Certification Maintenance Program (CMP)**, every three years in order to maintain their certification.
- ▣ The ASCP Board of Certification (BOC) developed the Certification Maintenance Program (CMP) to demonstrate to the public that laboratory professionals with this designation are performing activities to stay current in their profession.



International Certification Report

The latest international news can always be found in the International Certification Report, published quarterly!



International Certification – ASCPⁱ ASCP Membership Benefits

- ❑ ASCPⁱ certificants are granted a period of free membership to ASCP
- ❑ Membership card, membership certificate and seal
- ❑ Member discounts on ASCP education products
- ❑ Six free credits for online continuing education courses
- ❑ Online access to *LABMEDICINE*, the official ASCP peer-reviewed journal for laboratory professionals



Available Education Resources

American Journal of Clinical Pathology (AJCP) and AJCP.com

...leading clinically-oriented, peer-reviewed pathology and laboratory medicine journal that helps pathologists and other laboratory scientists stay current through application of evolving technology and techniques for diagnosis and improved patient care



LABMEDICINE and LABMEDICINE.com

...linking content with industry happenings and readers' professional development provides recipients with a regular way to stay reliably connected and informed



Online versions of both publications now include: Inter-Journal links, E-mail alerts, Citation manager, Rollover abstracts



Education – ASCP Online Learning

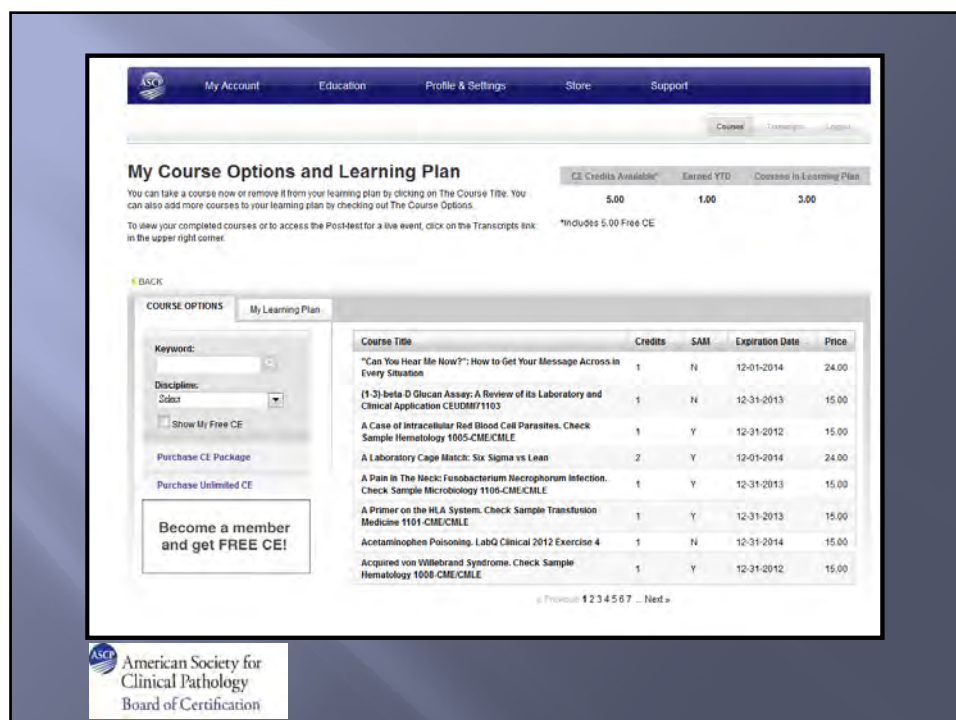
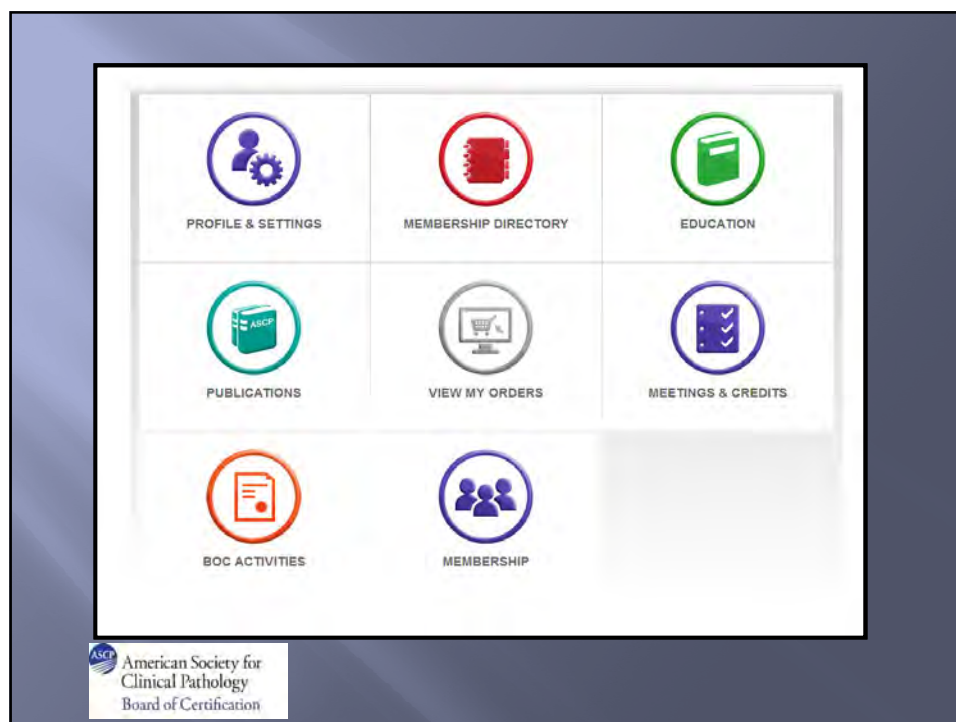
ASCP is *your* online learning partner

Fulfill your continuing education requirements “**Anywhere, Anyplace, Anytime**”. Access ASCP educational programs right at your desktop. Nothing could be easier or more convenient.

ASCP online learning offers personalized continuing education to suit your needs. Educational activities covering a wide range of specialty areas including:

- on-demand webcasts
- e-courses
- online case studies
- journal articles





Beckwith-Wiedemann Syndrome: The Role of Molecular Diagnostic Testing in Patient Care

[Activity](#) [Exercise](#)

[Home](#) > [Course](#)

Beckwith-Wiedemann Syndrome: The Role of Molecular Diagnostic Testing in Patient Care

[About This Activity](#)

Faculty/Authors

Bijal A. Parikh, MD, PhD
Resident in Clinical Pathology
Department of Pathology and Immunology
Washington University School of Medicine
St Louis, Missouri

Barbara Zehnbaue, PhD, FACMG
Chief, Laboratory Practice Evaluation and Genomics Branch
Centers for Disease Control and Prevention
Atlanta, Georgia

Upon completion of this activity, you will be able to:

- describe the typical presentation of a child with Beckwith-Wiedemann syndrome (BWS).
- identify the genetic causes of BWS.
- explain the inheritance pattern of BWS.
- identify the tests useful in confirming the diagnosis of BWS.
- discuss the limitations of molecular testing in BWS.
- discuss common comorbidities associated with BWS.

Physician Competency: Patient Care, Medical Knowledge


Instructions

To claim CME credit for the exercise do the following:

1. From the upper left hand corner of the screen, click the **E**
2. Review the technical considerations
3. Select the credit type (CME/CMLE) that you would like to
4. Read the *Educational Activity*.
5. Complete and submit the *Post Test*.
6. Submit the course *Evaluation* to register your credit.

To claim Self-Assessment Module (SAM) credit for the ex

1. From the upper left hand corner of the screen, click the **E**
2. Review the technical considerations
3. Select the credit type (SAM) that you would like to receive
4. Complete and submit the *Pre-test*.
5. Read the *Educational Activity*.
6. Complete and submit the *Post Test*.
7. Submit the course *Evaluation* to register your credit.

 American Society for
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Board of Certification

ASCP designated CME credits are AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activities. To claim fewer than the maximum number of credits designated for an activity, change the value and click on **Edit Credits** on the right.

To view and print your certificate, click on the **certificate** link that corresponds to your Activity Title:

To view your completed courses, click on the **Completed Courses** Launching a course will take you away from this page. To return to the Transcript page, click on Education Home in the upper right corner.

CreditType	ASCP	Self Recorded
CME	2.00	0.00
CMLE	2.00	0.00
SAM	2.00	0.00

[BACK](#)


Available Options:

[Add non-ASCP Credit](#)

[View Transcript](#)

[Print Transcript](#)

Date	Completed Courses	Certificate	Credits	Credit Type	SAM
2/15/2012	Algorithms for HIV Testing. LabQ LQCL1103	LQCL1103	1.00	CMLE	No
8/10/2011	Pathology Consultation on Warfarin Pharmacogenetic Testing AJSA1101	AJSA1101	1.00	SAM	No
8/10/2011	EGFR and K-ras Mutations Along the Spectrum of Pulmonary Epithelial Tumors of the Lung and Elaboration of a Combined Clinicopathologic and Molecular Scoring System to Predict Clinical Responsiveness to EGFR Inhibitors AJAP0907	AJAP0907	1.00	SAM	No
8/4/2011	Microarray-Based Gene Expression Profiling for Molecular Classification of Breast Cancer and Identification of New Targets for Therapy CEUDMD81002	CEUDMD81002	1.00	CMLE	No
8/2/2011	Diversity Counts: Visualizing Pretumor Progression in the Gastrointestinal Tract AJBS1101	AJBS1101	1.00	CME	No
8/2/2011	Acute Myeloid Leukemia With IDH1 or IDH2 Mutation: Frequency and Clinicopathologic	AJHE1104	1.00	CME	No

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Board of Certification

International Certification – ASCPi Immigration Issues

- Individuals desiring to immigrate to the U.S. based on their medical technology certification must still apply for an **H1-B Visa** and obtain a **VisaScreen certificate** (www.cgfns.org)
- Test of English as a Foreign Language (**TOEFL**) scores required for immigration purposes through **VisaScreen**, but TOEFL scores are not required to take the ASCPi exam



We are proud to support the ICN/NFIE Teddy Bear for the Girl Child Education Fund

Home Site Map Contact Us

Google Custom Search

About CGFNS CGFNS services Apply/Check status Forms and fees Tools and information News and library

VisaScreen®: Visa Credentials Assessment

Who is this service for?

The following health care professionals who are not U.S. citizens and are seeking occupational visas to work in the United States:

- Registered nurses
- Physical therapists
- Occupational therapists
- Physician assistants
- Audiologists
- Clinical laboratory technicians (medical technicians)
- Clinical laboratory scientists (medical laboratory technologists)
- Speech language pathologists
- Licensed practical or vocational nurses

What does this service do?

Section 343 of the Illegal Immigration Reform and Immigrant Responsibility Act (the IIRIRA) of 1996 requires specific health care professionals complete a screening program before they can receive either a permanent or temporary occupational visa, including Trade NAFTA status. This screening includes:

- an assessment of an applicant's education to ensure that it is comparable to that of a U.S. graduate in the same profession
- a verification that all professional health care licenses that an applicant ever held are valid and without restrictions
- an English language proficiency examination
- for registered nurses, a verification that the nurse has passed either the CGFNS Qualifying Exam®, NCLEX-RN® or its predecessor, the State Board Test Pool Examination (SBTPE)

Applicants who successfully complete VisaScreen® receive an ICHP VisaScreen® certificate, which satisfies the Federal screening requirements.

VisaScreen® renewal

International Centre on Nurse Migration

Founded in 2005 as a joint endeavor between CGFNS International and the International Council of Nurses, the International Centre on Nurse Migration (ICNM) serves as a global resource for the development, promotion and dissemination of research, policy and information on global nurse migration.

www.internationalnursemigration.org

ASCP American Society for Clinical Pathology Board of Certification

<http://www.cgfns.org/sections/programs/vs/>

Already Certified

Verification of Certification

State Licensure Agencies

The U.S. has several states which require licensure or certification to work as an MT or MLT. Effective June 1, 2007, the MT(ASCP)ⁱ examination is recognized as an approved exam for California Licensure. Each state has its own set of rules and guidelines, so you must contact the licensure agency in each state for information about these requirements.

We have provided the name, address and telephone number as a point of contact and information only for those states that require licensure or certification (in state of Georgia) for Medical Laboratory Scientist and other laboratory personnel. Because health care regulation is an ever-changing process, it is important that you direct all inquiries to the state department at the phone numbers and addresses listed below:

▶ California	<div>California</div> <div>California State Department of Health Services</div> <div>Northern California Office</div> <div>Laboratory Field Services</div> <div>Attn: Personnel Licensing</div> <div>850 Marina Bay Parkway</div> <div>Bldg P, 1st Floor</div> <div>Richmond, CA 94804-6403</div> <div>T 510.620.3800</div> <div>F 510.620.3692</div>
---------------------	---

▶ **Florida**	
▶ **Georgia**	
▶ **Hawaii**	
▶ **Louisiana**	
▶ **Montana**	Montana Department of Health Services Southern California Office Laboratory Field Services 320 West 4th Street, Suite 890 Los Angeles, CA 90013-2329 T 213.620.6160 F 213.620.6565
▶ **Nevada**	
▶ **New York**	
▶ **North Dakota**	


<http://www.ascp.org/Board-of-Certification/Verification-of-Certification#tabs-2>

As of February 20, 2012

Monthly Report on

Applicants and Certifications

for ASCPⁱ

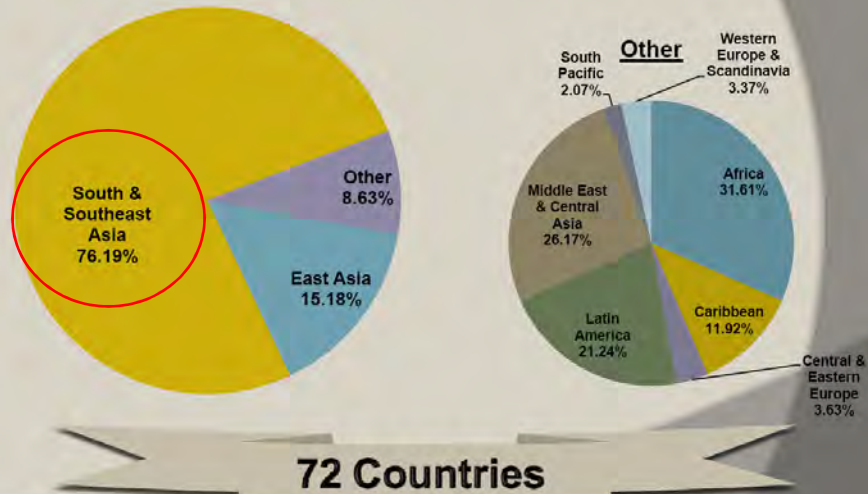


Angela Sreckovic
Research Coordinator, International Certification

*report does not include retake applications

**SMT is the internal staff reference code for the Tecnólogo Médico Internacional, MT(ASCP)ⁱ en español examination

First Time Applicants by Region of Education



ASCP American Society for
Clinical Pathology
Board of Certification

First Time Applicants by Country of Education & Examination Category L-Z countries

	MT	SMT	MLT	CTgyn	MB	PBT	Total
Lebanon	8	0	0	0	0	2	10
Lesotho	0	0	0	0	1	0	1
Liberia	0	0	1	0	0	0	1
Libyan Arab Jamahiriya	0	0	1	0	0	0	1
Malaysia	0	0	0	0	1	0	1
Moldova	0	0	2	0	0	0	2
Myanmar	1	0	0	0	0	1	2
Nepal	3	0	1	0	0	0	4
New Zealand	2	0	0	0	0	0	2
Nigeria	26	0	0	0	0	1	27
Pakistan	3	0	0	0	2	0	5
Panama	4	44	0	0	0	0	48
Peru	4	4	0	0	0	0	8
Philippines	3,117	0	24	0	7	14	3,162
Poland	0	0	2	0	1	0	3
Portugal	0	0	0	1	0	0	1
Qatar	5	0	0	0	1	0	6
Russian Federation	0	0	0	1	0	1	2
Saudi Arabia	25	0	0	0	4	4	33
Serbia	0	0	0	0	0	1	1
Singapore	2	0	59	4	1	5	72
Slovakia	0	0	1	0	0	0	1
South Africa	3	0	0	0	0	0	3
Sudan	14	0	0	1	0	0	15
Syria	1	0	1	0	0	1	3
Taiwan	45	0	0	1	2	0	48
Thailand	11	0	0	0	0	0	11
Togo	2	0	0	0	0	0	2
Turkey	0	0	1	0	1	0	2
Uganda	3	0	0	0	0	0	3
United Arab Emirates	10	0	1	1	0	0	12
United Kingdom	7	0	0	0	0	0	7
Venezuela	2	0	0	0	0	0	2
Vietnam	2	0	0	0	0	0	2
Yemen	2	0	0	0	0	0	2
Zimbabwe	9	0	0	0	0	0	9
Total	3,827	52	404	10	117	63	4,473

Certifications by Country of Education & Examination Category N-Z countries

	MT	SMT	MLT	CTgyn	MB	PBT	TOTAL PASS
Nepal	3	0	0	0	0	0	3
Nigeria	9	0	0	0	0	0	9
Pakistan	2	0	0	0	1	0	3
Panama	3	6	0	0	0	0	9
Peru	3	2	0	0	0	0	5
Philippines	1,816	0	10	0	5	10	1,841
Poland	0	0	1	0	0	0	1
Portugal	0	0	0	1	0	0	1
Qatar	3	0	0	0	1	0	4
Russian Federation	0	0	0	0	0	1	1
Saudi Arabia	3	0	0	0	1	2	6
Singapore	1	0	26	1	1	4	33
Sudan	2	0	0	1	0	0	3
Syria	0	0	1	0	0	1	2
Taiwan	28	0	0	1	2	0	31
Thailand	4	0	0	0	0	0	4
Togo	1	0	0	0	0	0	1
Uganda	2	0	0	0	0	0	2
United Arab Emirates	1	0	0	0	0	0	1
United Kingdom	1	0	0	0	0	0	1
Venezuela	2	0	0	0	0	0	2
Vietnam	1	0	0	0	0	0	1
Yemen	2	0	0	0	0	0	2
Zimbabwe	8	0	0	0	0	0	8
Total	2,157	8	206	5	64	44	2,484

American Society for Clinical Pathology's 2011 Vacancy Survey of U.S. Clinical Laboratories

Edna Garcia, MPH,¹ Andrea Bennett, MPH, MT(ASCP),¹ Michael DeFranco, MS,² Matthew Schulze,¹
 Patricia A. Tanabe, MPA, MLS(ASCP)^{CM},² Jennifer Hampshire, MLS(ASCP)^{CM},³ Fred Rodriguez, MD, FASCP,⁴
 JoAnne Edwards, MEd, MT(ASCP),⁴ Henry Lee, MT(ASCP), DLM, CPHQ⁴

(¹ASCP Washington, DC, ²ASCP Board of Certification, Chicago, IL,
³ASCP Membership, Chicago, IL, ⁴ASCP Commission on Public Policy)

美國臨床病理學會 (American Society for Clinical Pathology, ASCP)

1988起每2年實訪問卷調查~~**職缺與薪資**
供產官學界醫檢人力之現況分析與未來規劃方針

■職缺-2011年問卷結果

625單位、1,719部門、16,274醫檢師與17,674職缺

■薪資-2010年問卷結果

3,130非主管與2,486主管醫檢師，共5,616位醫檢師

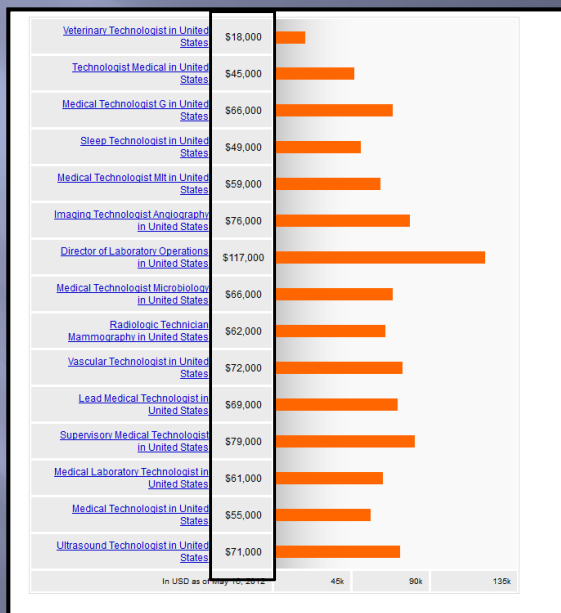


Figure 3. Staff vacancy rates by laboratory department. Sample sizes for Anatomic Pathology and Cytogenetics department did not allow for statistically significant comparisons.





Figure 4. Supervisory vacancy rates by laboratory department. Sample sizes for Anatomic Pathology, Cytogenetics, and Immunology did not allow for statistically significant comparisons.



Cited from <http://www.indeed.com/salary/q-Medical-Technologist-I-United-States.html>

Salary Wizard®

Base Salary

Bonuses

Benefits

[Methodology](#)
[New Search](#)
[Help](#)

Medical Technologist (ASCP) - U.S. National Averages

Base pay only

Percentile	Salary
10th%	\$50,217
25th%	\$54,537
75th%	\$64,237
90th%	\$68,749

You're not done yet!

These numbers are only an average for all Medical Technologist (ASCP) jobs in the United States. Many factors can effect the salary you should expect. Please try our **FREE** Advanced Salary Calculator to narrow down this range and see exactly where your salary should fall.

Begin by selecting your location:

☒ Zip Code ☐ State/Metro

Next

The median expected salary for a typical **Medical Technologist (ASCP)** in the United States is **\$59,282**. This basic market pricing report was prepared using our Certified Compensation Professionals' analysis of survey data collected from thousands of HR departments at employers of all sizes, industries and geographies.

Source: HR Reported data as of May 2012

NTD 1756300

Job Description for Medical Technologist (ASCP)

Performs diagnostic testing on patient samples to aid physicians in the diagnosis and/or monitoring of various disease states. Follows standardized procedures and helps prepare samples for testing. Analyzes test results for accuracy, acceptability, and critical limits. Requires a bachelor's degree and must be a certified medical technologist. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Performs a variety of tasks. A limited degree of creativity and latitude is required. Typically reports to a manager or supervisor.

Alternate Job Titles: Medical Technologist (ASCP)

Categories: [Healthcare -- Technicians](#)

Cited from <http://www1.salary.com/medical-technologist-Salary.html>

Salary Wizard®

Base Salary

Bonuses

Benefits

[Methodology](#)
[New Search](#)
[Help](#)

Staff Nurse - RN - U.S. National Averages

Base pay only

Percentile	Salary
10th%	\$54,205
25th%	\$59,755
75th%	\$72,408
90th%	\$78,376

You're not done yet!

These numbers are only an average for all Staff Nurse - RN jobs in the United States. Many factors can effect the salary you should expect. Please try our **FREE** Advanced Salary Calculator to narrow down this range and see exactly where your salary should fall.

Begin by selecting your location:

☒ Zip Code ☐ State/Metro

Next

The median expected salary for a typical **Staff Nurse - RN** in the United States is **\$65,851**. This basic market pricing report was prepared using our Certified Compensation Professionals' analysis of survey data collected from thousands of HR departments at employers of all sizes, industries and geographies.

Source: HR Reported data as of May 2012

Job Description for Staff Nurse - RN

Evaluates assigned patients and plans, implements and documents nursing care. Assists physicians during examinations and procedures. Performs various patient tests and administers medications within the scope of practice of the registered nurse. Promotes patients' independence by establishing patient care goals and teaching patients and families to understand conditions, medications, and self-care skills. Requires an associate's degree and is certified as a registered nurse. Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. A wide degree of creativity and latitude is expected. Typically reports to a manager or head of a unit/department.

Alternate Job Titles: Staff Nurse - RN, Registered Nurse - Staff

Categories: [Healthcare -- Nursing](#)

<http://www1.salary.com/registered-nurse-Salary.html>

Salary Wizard®

Base Salary

Bonuses

Benefits

[Methodology](#)
[New Search](#)
[Help](#)

Pharmacist - U.S. National Averages

Base pay only

⚠ You're not done yet!

These numbers are only an average for all Pharmacist jobs in the United States. Many factors can effect the salary you should expect. Please try our FREE Advanced Salary Calculator to narrow down this range and see exactly where your salary should fall.

Begin by selecting your location:

☒ Zip Code
 ☐ State/Metro

Next

The median expected salary for a typical **Pharmacist** in the United States is **\$114,897**. This basic market pricing report was prepared using our Certified Compensation Professionals' analysis of survey data collected from thousands of HR departments at employers of all sizes, industries and geographies.

Source: HA Reported Data as of May 2012

Job Description for Pharmacist

Compounds and dispenses prescribed drugs in a healthcare facility environment. Also responsible for transferring prescriptions, handling incoming physician calls, logging data into the computer, and Drug Utilization Review. Requires a bachelor's degree and/or an advanced degree in pharmacy and is licensed to practice. Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of tasks. A certain degree of creativity and latitude is required. Typically reports to a manager.

Alternate Job Titles: Pharmacist, Druggist

Categories: [Pharmaceuticals](#), [Biotechnology](#), [Healthcare -- Practitioners](#)

 American Society for
Clinical Pathology
Board of Certification

<http://www1.salary.com/Pharmacist-Salary.html>

表12. 美國各州醫檢師之平均薪資

平均最高時薪地區		平均最低時薪地區	
地區	時薪	地區	時薪
加州 California (CA)	\$36.10	西維吉尼亞州 West Virginia (WV)	\$25.88
馬里蘭州 Maryland (MD)	\$32.40	俄亥俄州 Ohio (OH)	\$25.54
麻州 Massachusetts (MA)	\$32.18	阿肯色州 Arkansas (AR)	\$25.16
康乃狄克州 Connecticut (CT)	\$31.80	內布拉斯達州 Nebraska (NE)	\$24.66
奧瑞岡州 Oregon (OR)	\$30.98	北達可達州 North Dakota (ND)	\$23.78

Summary-美國地區醫檢師就業市場

■職缺-15,000/yr

非主管	血庫、生化、組織病理、一般鏡檢(抽血)
主管	血庫、組織病理、一般鏡檢(抽血)、微生物

■薪資-加州、奧瑞岡州

非主管	136,030 NTD
主管	163,695 NTD (950/時)

■ASCPi證照-72國家

- ASCPⁱ may not be recognized in all states .
- MT licensure states: must take a state approved exam.
CA, HI, FL, ND, RI, TN, LA, NY, NV, WV, MT, GA, PR



Here are the monthly salaries for Medical Technologist.

You can also [refine your search by specialization](#)

Position Level	Min (\$\$)*	Average (\$\$)*	Max (\$\$)*
Senior Executive	1,000	2,500	2,767
Junior Executive	1,930	2,400	2,800

NTD 58010

Want more info? [Sign up](#) or [update your resume](#) to get a FREE Personalized Salary Report ([see screenshots](#)) in your JobStreet.com account.

Cited from : <http://myjobstreet.jobstreet.com.sg/career-enhancer/basic-salary-report.php?param=Medical+%2C+Technologist000sgllsg>



Dear Tze-Kiong,

We have a very active Advisory Board working on the [ASCPi index.html](#)

To my knowledge there is not official recognition of ASCPi certification will follow and eventually...

Best,

Jennifer Young, CTE(ASCP)™
 Senior Manager, International Certification
 ASCP Board of Certification
 8800 Kaymire Crossing, Suite 300
 Indianapolis, IN USA
 46240

Singapore Takes an Important Step Toward ASCP International Certification

The graduating laboratory medicine students in Singapore Polytechnics will take the ASCP international certification examination in the final semester of the academic year 2010–2011. “We hope the Polytechnic students’ participation and success will bring the ASCP international certification to the next level,” said Ong Siew Kim, MS, MAACB, FAACB, MBA, Chair, Singapore Advisory Board and joint Ngee Ann Polytechnic-National University Hospital Biomedical Laboratory Technology Programme Manager at the National University Hospital.


In February 2011, Ms. Ong expects 20 students to take the ASCPi certification examination, shortly after finishing their final exams from the Polytechnics. Three years ago when she formed

www.criticalvalues.org/cv_january_2011


...more and more become certified recognition of the test there.

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Job Types	Year(s) of Experience	Monthly Salary Range (HK\$)
NTD 72128~123030		
Associate medical technologist	*	\$18,990 to \$32,235
Medical technologist	5+	\$33,710 to \$48,670
NTD 128660~185750		
Dispenser	*	\$14,065 to \$28,065
Senior dispenser	5+	\$29,400 to \$38,685
Physiotherapist II/Radiographer II	*	\$19,945 to \$32,235
Physiotherapist I/Radiographer I	5+	\$33,710 to \$49,480
Nursing grade		
Registered nurse	*	\$20,950 to \$33,710
Advanced practice nurse	5+	\$35,290 to \$49,480
Senior nursing officer	10+	\$49,480 to \$60,890
Doctor grade		
Resident	*	\$42,410 to \$80,145
Associate consultant	6+	\$77,375 to \$89,140



Cited from: http://www.classifiedpost.com/pdf/ClassifiedPost_SalaryIndex_2011.pdf

表1. 台灣與其他國家醫事檢驗師執業人數

國家	人口 (萬)	總病床數	醫師執業 人數	每萬人口 醫師數	醫檢師 執業人數	每萬人口 醫檢師數	每位醫檢 師平均照 護床數	醫師/醫 檢師人力 比
台灣	2,312	134,716	37,841	16	6,909	2.99	19.50	5.4/1
美國	31,192	1,093,766	793,648	27	172,000	5.51	6.36	4.9/1
韓國	4,800	★512,499	81,998	17	14,000	2.91	11.92	5.8/1
日本	12,629	★1,761,015	270,371	21	49,984	3.96	35.23	5.3/1
英國	6,100	160,000	126,126	21	-	-	-	-
加拿大	3,460	134,940	62,307	19	-	-	-	-
澳洲	2,300	80,649	19,612	10	-	-	-	-
新加坡	450	11,663	6,380	15	-	-	-	-

*資料來源-謝文祥主任：99年度醫事檢驗師人力需求推估報告。

*病床數包括醫院以外之慢性照護機構，無法與台灣醫院之總病床數做比較。



台灣醫技系畢業生參加ASCPi認證現況

證照種類		參加人數	通過人數	通過率
MT	Medical Technologist	45	28	62.2%
CTgyn	Cytotechnologists	1	1	100%
MB	Molecular Biologist	2	2	100%
Total		48	31	64.6%

*2012/02為止，72國共2,484 /4,473位考生通過認證(55.5%)。



醫檢論壇

一位醫技人的省思

成功大學醫學檢驗生物技術學系
吳俊忠教授

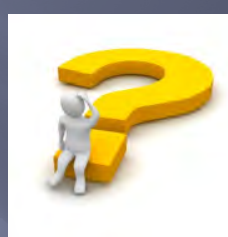
醫檢會報第二十五卷第三期.

ASCP American Society for
Clinical Pathology
Board of Certification

學校教育與實務脫節



高階人才的斷層



省思

醫檢人力的總額管制

無法凸顯醫檢專業的獨立性

不合理的評鑑制度

ASCP American Society for
Clinical Pathology
Board of Certification

- ▣ 檢驗是一項專門職業
- ▣ 此專業一定要有最基本尊嚴
- ▣ 做人要有最基本的厚道及醫學倫理
- ▣ 醫檢人除了要自律外，更要團結積極爭取應有的權益
- ▣ 核心點:衛生署、健保局及教育部



ASCPi應考心得分享

檢舉

分類：醫檢師

2010/12/23 21:37

分享    

ASCPi應考心得分享

有一位醫檢師在考取ASCPi執照後，在我的部落格做出回應，分享他應考ASCPi的經驗，頗值得大家參考，特轉貼於此。以下為回應的全文：

學長您好，
當時我是在您的部落格知道ASCPi IMT的認證，也曾經請教過您幾個問題，而我也在日前通過了考試，真的很感謝您的指點與不吝賜教。

準備考試歷程有幾點想與學長分享一下：

1. 正式考題比他推薦的那一本 "Board of Certification Study Guide for the Clinical Laboratory Certification Examinations, 5th Edition" 難一個程度，除了熟讀之外一定要融會貫通深入了解，否則看到正式題目會傻眼。
2. 考試時需要帶兩份身分證件，兩份都要有英文名字和簽名。最簡單的是護照和信用卡，我想台灣證應該也可以。(我考試時不知道兩份都必須有英文名字和簽名，差點不能應考)
3. Pearson VUE 在台北的應考電腦不超過20台，還要分配給其他考試使用，因此一定要提早預定。
4. 現在加州的執照似乎已經可以直接用ASCPi IMT 認證去換取，如果我換成功了再與學長分享！

<http://tw.myblog.yahoo.com/iso-15189/article?mid=1774&next=1651&l=f&fid=9>



Graduates of the First MB(ASCPⁱ) International Certification Examination Prep Course

In September 2010, in response to the demand for International Technologist in Molecular Biology MB(ASCPⁱ) certification, the Hong Kong Society for Molecular Diagnostic Sciences (HKSMDS) launched a Molecular Biology preparatory program. The program was specifically designed to cater to the training needs of medical laboratory technologists. Participants in the program advanced their professional competency in the practice of molecular diagnostic testing and in various clinical laboratory specialty areas. Programmatic sessions were conducted through a series of lectures, tutorials, and workshops. Participants accumulated knowledge of the scientific principles of molecular diagnostics, as well as the technical and procedural aspects of the discipline. A total of 58 laboratory professionals and five pathologists participated in the program. As of Feb. 23, 2012, ASCP BOC has received 43 applications for the MB(ASCPⁱ) certification examination from Hong Kong with 29 successful Hong Kong MB(ASCPⁱ) certificants to date. "The attainment of the MB(ASCPⁱ) credential not only boosts the confidence of our medical laboratory technologists and scientists, but it also serves as a recognition of their professional status," said Chris Wong, PhD, Chair, Hong Kong Advisory Board.

To see additional international highlights, please refer to the [March International Certification Report](#).



Graduates of the Hong Kong Society for Molecular Diagnostic Sciences' (HKSMDS) Molecular Biology preparatory program



自102年4月1日起，醫事檢驗師應試科目新增「醫學分子檢驗學」

分類：醫事檢驗師國家考試

2012/04/30 10:23

分享


考選部函

主旨：101年2月15日考試院修正發布專門職業及技術人員高等暨普通考試醫事人員考試規則部分條文及第6條附表一「專門職業及技術人員高等暨普通考試醫事人員考試應試資格表」，第7條附表二「專門職業及技術人員高等暨普通考試醫事人員應試科目表」暨明年2月23日本部訂定發布6類醫事人員實習認定基準。

說明：醫事檢驗師部分 **自102年4月1日起** 醫事檢驗師應試科目如下：

- 一、臨床生理學與病理學
- 二、臨床血液學與血清學
- 三、**醫學分子檢驗學** 臨床鏡檢學(包括寄生蟲學)
- 四、微生物學與臨床微生物學(包括細菌與真菌)
- 五、生物化學與臨床化學
- 六、臨床血清免疫學與臨床病毒學

另訂定「專門職業及技術人員高等考試醫事檢驗師考試實習認定基準」。

 American Society for Clinical Pathology Board of Certification

Acknowledgements

- ▣ 高醫國際事務中心
- ▣ 高醫醫學檢驗生物技術學系
- ▣ Jennifer Young, CT(ASCP)^{CM}
- ▣ Joseph Baker
- ▣ 陽明大學張懿欣教授
- ▣ Advisors

QUESTIONS? COMMENTS?

For further information:

Visit the ASCP international website at:

<http://www.ascp.org/international>

Or contact:

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for ASCP International Certification Activities

Jennifer.Young@ascp.org

Or contact:

Tze-Kiong Er, Ph.D., MB(ASCP)ⁱ, LIMBS
Senior Medical Technologist

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