



EDUCATOR EXPERIENCE DOCUMENTATION FORM (Routes 4 & 5)

PART I (TO BE COMPLETED BY APPLICANT) Applicant's Name Address **Email Address** PART II (MUST BE COMPLETED AND SIGNED BY IMMEDIATE SUPERVISOR OR EMPLOYER IN ORDER TO BE ACCEPTABLE) SUBJECT: VERIFICATION OF EDUCATOR EXPERIENCE FOR EXAMINATION ELIGIBILITY This individual, identified above, has applied for the Board of Certification International Specialist in Blood Banking examination. In order to establish this applicant's eligibility for certification, the following information is necessary: 1. PLEASE COMPLETE: EMPLOYMENT Date **teaching** employment **started**: Month _____ Day ____ Year ____ Month _____ Day ____ Year ____ Date **teaching** employment **ended**: Are you employed full time _____ or part time _____ as an educator? If part time, how many hours per week? __ How many **Blood Banking** courses do you teach per **school year**? 2. DIRECTIONS: Please review the experience of this applicant in teaching blood banking. Please place an X by each procedure which has been taught satisfactorily under your supervision using The Guidelines for Evaluating Experience of a Candidate for International Specialist in Blood Banking. (NOTE: Teaching experience is required in ALL of the procedures listed below.) **SEROLOGIC TESTING** LABORATORY OPERATIONS* ABO grouping and Rh typing **ROUTINE PROBLEM SOLVING** Antibody detection and identification Transfusion adverse reactions Crossmatching Immune hemolytic anemias Hemolytic disease of the fetus and newborn (HDFN) Direct antiglobulin tests Tests for other blood group antigens Rh immune globulin studies **MOLECULAR TESTING*** Indications for transfusion QUALITY CONTROL/ASSURANCE DONOR COLLECTION, PROCESSING, AND TESTING* Donor selection, preparation, and collection Reagents, equipment Component quality control Processing and donor testing Component preparation for storage and administration Regulatory compliance *Proficiency for the tasks indicated by the asterisks may be demonstrated through performance, observation, or simulation. 3. BY SIGNING THIS FORM, I AS IMMEDIATE SUPERVISOR OR EMPLOYER VERIFY THAT THIS APPLICANT HAS TAUGHT SATISFACTORILY IN THE BLOOD BANKING AREAS CHECKED ON THIS FORM. (Please Print) Immediate Supervisor or Employer Name Title Immediate Supervisor or Employer Signature Date Immediate Supervisor or Employer Email Address Institution Telephone Number Institution

Institution Address

BE SURE TO INCLUDE A LETTER OF AUTHENTICITY FROM YOUR IMMEDIATE SUPERVISOR OR EMPLOYER WITH THIS EDUCATOR EXPERIENCE DOCUMENTATION FORM. THE LETTER OF AUTHENTICITY MUST BE PRINTED ON ORIGINAL LETTERHEAD. IT MUST STATE THAT THE EDUCATOR EXPERIENCE DOCUMENTATION FORM WAS COMPLETED, SIGNED AND DATED BY YOUR IMMEDIATE SUPERVISOR OR EMPLOYER. EDUCATOR EXPERIENCE DOCUMENTATION FORMS RECEIVED WITHOUT LETTERS OF AUTHENTICITY ARE UNACCEPTABLE.

See www.ascp.org/boc/intl-documentation for submission instructions.





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COMPETENCY STATEMENTS

INTERNATIONAL SPECIALIST IN BLOOD BANKING

IN REGARD TO LABORATORY OPERATIONS AND THE PERFORMANCE OF LABORATORY TESTS INVOLVING BLOOD GROUP IMMUNOLOGY, BLOOD GROUP SYSTEMS, BLOOD PROCUT, SEROLOGIC AND MOLECULAR TESTING, PHYSIOLOGY AND PATHOPHYSIOLOGY, LABORATORY OPERATIONS, AND TRANSFUSION PRACTICE AT CAREER ENTRY, THE SPECIALIST IN BLOOD BANKING:

APPLIES

- principles of basic and special laboratory procedures using knowledge of standard operating procedures in order to perform tests
- knowledge of possible sources of error to laboratory testing
- knowledge of fundamental biological characteristics as they pertain to laboratory testing, in order to interpret laboratory findings
- principles of theory and practice related to laboratory operations
- standard operating procedures as it relates to establishing laboratory protocols
- principles of theory and practice related to:
 - o management
 - safety
 - o education
 - o research and development

PREPARES

- reagents and blood components according to established procedures
- instruments to perform tests
- controls/standards for laboratory procedures
- educational materials for use in teaching programs
- operational budgets

CALCULATES

- results from test data obtained from laboratory procedures
- cost per test

SELECTS

- appropriate methods for laboratory testing
- procedural course of action appropriate for the type of sample and test requested
- appropriate controls/standards for tests performed
- methods/reagents/blood components/donors according to established procedures
- routine and special laboratory test procedures to verify test results according to established protocol
- instruments to perform tests appropriate to test methodology according to established procedures
- instruments for new laboratory procedures

CORRELATES LABORATORY DATA

- and clinical data to assess test results and accuracy
- and quality control data to assess test results/methods/procedures
- with other laboratory data to assess test results
- with physiologic processes to assess/validate test results and procedures
- with other laboratory data to assess test methods

ESTABLISHES

- policies and procedures to facilitate laboratory accreditation
- new laboratory test procedures

EVALUATES

- laboratory and clinical data to:
 - determine appropriate additional testing
 - o recognize common procedural/technical problems
 - verify test results
 - o check for possible sources of error
 - o determine possible inconsistent results
 - recognize health and disease states
 - o assess validity/accuraty of procedures for a given test
 - o determine appropriate instrument adjustments
 - o make a final identification
 - o refine laboratory test procedures
 - o determine alternate methods for a given test
 - o establish refererence range criteria for existing or new tests

- quality assurance data to verify laboratory results
- laboratory personnel performance
- laboratory productivity
- laboratory operational policies and procedures
- various methods to establish new testing procedures
- new technology and scientific advancements for potential information
- performance of clinical laboratory students
- test results obtained by alternate methodologies





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GUIDELINES FOR EVALUATING EXPERIENCE OF A CANDIDATE

INTERNATIONAL SPECIALIST IN BLOOD BANKING

To qualify for certification as an international specialist in blood banking, the applicant should be proficient in teaching **<u>ALL</u>** of the tests and procedures indicated below. The international specialist in blood banking should have the equivalent knowledge and skill to those of a graduate of an accredited/approved international specialist in blood banking program.

FOR EACH AREA OF EXPERIENCE LISTED BELOW, THE CANDIDATE SHOULD BE ABLE TO:

- 1. obtain necessary patient/donor history
- 2. recognize clerical errors in records and in the labeling of patient specimens and blood products
- 3. select appropriate samples, reagents, procedures, controls, and donor units
- 4. perform tests accurately and within a reasonable period of time
- 5. correctly observe, record, and interpret results produced by various methods
- **6.** recognize and resolve encountered problems and discrepancies including, but not limited to, those described below
- 7. correlate other related data pertinent to problem resolution

SEROLOGIC TESTING		
AREA OF EXPERIENCE	SUGGESTED EXTENT OF EXPERIENCE	
ABO grouping	 Discrepancies due to subgroups, unexpected alloantibodies, cold-reactive autoantibodies, lack of expected antigens/antibodies Samples with mixed-field agglutination Confirmation of weak subgroups by adsorption/elution techniques Rouleaux Separation of mixed ABO cell populations 	
Rh typing	 Rh phenotyping/probable genotype determination Variant Rh phenotypes/genotypes Testing of blood samples with positive Rh controls caused by rouleaux, positive DAT Blood samples with mixed-cell populations Rh-positive samples with alloanti-D 	
Antibody detection and identification	 Blood samples with: a single alloantibody; autoantibodies mixtures of alloantibodies antibodies to low-prevalence and high-prevalence antigens autoantibodies plus alloantibodies antibodies to constituents of reagents/drugs monoclonal antibody therapy Samples reactive by enhancement techniques only (e.g., PEG) Red cell treatments (e.g., enzymes) Titrations Hemagglutination inhibition Adsorption/elution procedures 	
Crossmatching	 Selection of appropriate blood products and ABO/Rh types for a variety of patients 	





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	Incompatible crossmatches:
	 recipient samples with unexpected alloantibodies, rouleaux, cold-reactive
	autoantibodies
	recipient samples with unidentified alloantibodies
	 recipient samples with warm-reactive autoantibodies and underlying
	alloantibodies
	o donor with positive DAT
	Samples coated with IgG, Complement components and/or both
Direct antiglobulin test	Elution techniques
	Recognition of mixed-field reactions
Tests for other blood group	Red cell phenotyping
antigens	Phenotyping of red cells with positive DAT
	MOLECULAR TESTING*
*Proficiency r	may be demonstrated through performance, observation, or simulation
AREA OF EXPERIENCE	SUGGESTED EXTENT OF EXPERIENCE
	Red cell genotyping
Molecular Testing	Platelet genotyping
Wolecular resumg	RHD, RHCE analysis
	HLA typing
	ROUTINE PROBLEM SOLVING
AREA OF EXPERIENCE	SUGGESTED EXTENT OF EXPERIENCE
Transfusion adverse	Investigation of reactions due to ABO incompatibility, unexpected alloantibodies,
reactions	and non-immunologic causes
	Recognition of cases with clinical evidence of transfusion reactions in absence of
	supportive serologic data
	Transfusion management
Immune hemolytic anemias	Blood samples that present with ABO and Rh typing discrepancies
	Utilization and interpretation of polyspecific and monospecific antiglobulin sera
	testing
	Blood samples that contain autoantibodies plus alloantibodies in plasma and/or
	eluate
	Blood samples with drug-dependent antibodies Cold system and proving proceedings.
	 Cold autoadsorption and prewarming procedures Warm autoadsorption procedures
	Differential adsorptions with selected RBC
	Selection of blood for transfusion
	Correlation of laboratory data to determine immune mediated hemolysis
Hemolytic disease of the	Serologic testing of prenatal and neonatal blood samples
fetus and newborn (HDFN)	Elution techniques
	Serologic evaluation of ABO and Rh HDFN
	HDFN caused by other blood group system antibodies
	 Selection and preparation of blood products for intrauterine, neonatal, and
	exchange transfusions
	Use of thiol/sulfhydryl reagents
	Comparative titration studies
	Amniocentesis and evaluation of fetal blood





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 Methods for predicting severity of HDFN Determination of eligibility for RhIG cases involving: serologic weak D-positive mother maternal plasma containing anti-D maternal plasma containing other alloantibodies Rh-negative infants Samples with mixed-field weak-D reactions Detection of fetomaternal hemorrhage by multiple techniques Kleihauer-Betke stain and/or other quantitative method Microdose RhIG
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Microdose RhIG
Cases of excessive fetal bleed
RhIG usage with potential fetomaternal hemorrhage
Criteria for transfusion of blood components (e.g., red cells, platelets, plasma) to
various patient populations including neonates, infants, and adults
Component modification and special indications for various medical conditions
Application of patient blood management and blood utilization review
QUALITY CONTROL/ASSURANCE
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SUGGESTED EXTENT OF EXPERIENCE
Equipment troubleshooting and maintenance, including: incubators, water baths, refrigerators freezers contributes automated cell washers plarm systems.
refrigerators, freezers, centrifuges, automated cell washers, alarm systems,
platelet rotators
Performance of routine and required procedures on reagents Placed and component products to include properties and labeling of Whele
 Blood and component products to include preparation and labeling of Whole Blood, Red Blood Cells, Plasma Components, Platelets, Cryoprecipitated AHF,
Leukocyte-Reduced Cellular Components, Irradiated Cellular Components, Red
Blood Cells Frozen/Deglycerolized, apheresis products*
*Proficiency for the task indicated by the asterisk may be demonstrated through
performance, observation, or simulation
Application of AABB Standards and Code of Federal Regulations as appropriate to
all areas in quality management
Competency assessment program(s)
Proficiency testing
LABORATORY OPERATIONS*
nay be demonstrated through performance, observation, or simulation
SUGGESTED EXTENT OF EXPERIENCE
Procedure/policy selection and evaluation
Reagent and supply inventory
Instructional responsibilities
Safety
Operational budgets
Human resource management
DONOR COLLECTION, PROCESSING, AND TESTING*
nay be demonstrated through performance, observation, or simulation
SUGGESTED EXTENT OF EXPERIENCE
Donor interview and deferral as appropriate
• Phlebotomies





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	Donor adverse events
Processing and donor testing	Tests for transmittable diseases
	Samples with ABO/Rh confirmation not in agreement with unit label
	Quarantine of blood and blood products
	Market withdrawals, recalls, and look-back investigation
Component preparation for storage and administration	 Preparation of components for administration and storage: Red Blood Cells, Plasma Components, Platelets, Cryoprecipitated AHF, Leukocyte-Reduced Cellular Components, Washed Red Blood Cells, Irradiated Cellular Components, and Red Blood Cells Frozen/Deglycerolized Storage and transportation of blood and blood components Donor unit labeling