

ISU CLS Master Internship Core Required Task Checklist

The following checklist of departments and procedures/tasks are the MINIMUM core items required by the Idaho State University Clinical Laboratory Science Program. These core items may be attained by the student at different clinical laboratory locations. A specific clinical laboratory location may do other tasks than listed. They are encouraged and can and should expose them to the student if possible. However, these optional items are NOT required and may not be available to all students in the ISU CLS program. For details pertaining to the specifics for any specific procedure/tasks, please refer to: http://www.ascp.org/bor/directors/tech_mt/ or contact CLS Faculty for clarification.

Students should have had some exposure to the procedure/task while in the classroom or student laboratory. The clinical laboratory internship is an opportunity to give “real psychomotor” experience not attainable in the university setting.

The following tables include universally acknowledged basic procedures/tasks for a Clinical Laboratory Scientist (Medical Technologist). Please refer to the level or achievement key as your guide for acceptability for any procedure/task. The ISU CLS program grants you the responsibility for giving the student appropriate exposure to the items indicated. Please contact CLS faculty if there are any questions or concerns.

Level of Achievement Key:

Discussed	1	Task discussed; principle explained; student can restate principle
Demonstrated	2	Task has been demonstrated by instructor. Student has observed and asked any necessary questions
Practiced	3	Practiced the task under the direction of the instructor
Performed	4	Can Perform the task under the direct supervision of the instructor
Proficient	5	Can Perform the task with minimum supervision by an instructor
Mastery	6	Can Perform the task with no supervision

Student Name: _____

Department	Procedure/Task	Minimum Level	Evaluation Acceptable? Y/N	Supervisory signature
All Departments Lab Practices and Safety	Accessioning of Patients into LIS	3		
	Critical values and practices	3		
	Specimen Processing	3		
	Phlebotomy Adults and Children Other specimen collection	4		
	Procedure Manual Chemical Hygiene Plan	2		

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Department ~ 3 weeks	Required Procedure/Task	Minimum Level	Evaluation Acceptable? Y/N	Supervisory signature
General Hematology	Automated <ul style="list-style-type: none"> • Complete Blood Count (CBC) • Reticulocyte Count (if available) • Differential 	5		
	Manual <ul style="list-style-type: none"> • WBC Differential <ul style="list-style-type: none"> ○ Inclusions ○ Morphology ○ nrbc • Reticulocyte Count • Platelet Count • WBC and Platelet Estimate from smear 	4		
Hemostasis	PT/PTT/ INR	5		
	Bleeding Time / Platelet Function	3		
	DIC Panel Work-Up <ul style="list-style-type: none"> • Fibrinogen • Latex FDP or D-Dimer • Inhibitor Screen 	4		
UA & Body Fluids	Physical examination of Urine Chemical Examination	5		
	Microscopic Examination	5		
	Confirmatory Tests	5		
	Urine Pregnancy Test	5		
	Manual Body Fluid <ul style="list-style-type: none"> • WBC count • Differential 	4		
	Body Fluid chemistry	3		
	Post Vasectomy Semen Analysis	3		
	Fecal Occult Blood	3		
	Automated Dipstick Reader	4		
	Creatinine Clearance	4		

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Student Name: _____

Department ~ 1 week	Required Procedure/Task	Minimum Level	Evaluation Acceptable? Y/N	Supervisory signature
Immunology	Representative Latex agglutination	4		
	Representative EIA	4		
	RPR (if available)	4		
	Representative Immunofluorescence (if available)	4		
	Representative Hemagglutination (if available)	4		
	Representative Electrophoresis (if available)	4		
	Representative Nephelometry (if available)	4		
Department ~ 1 week	Required Procedure/Task	Minimum Level	Evaluation Acceptable? Y/N	Supervisory signature
Chemistry	Automated Chemistry <ul style="list-style-type: none"> • Operation of Analyzer • Calibration of Analyzer • Quality Control Requirements Representative Clinical Lab tests	5		
	Manual or Calculated Tests <ul style="list-style-type: none"> • When performed 			
	Osmometry (if available)			

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Department ~ 3 weeks	Required Procedure	Minimum Level	Evaluation Acceptable? Y/N	Supervisory signature
Microbiology:	Routine Microbiology: <ul style="list-style-type: none"> • Blood culture • GC culture (if available) • Gram Stain • Throat Culture • Urine Culture • Sputum Culture • Wound Culture 	5		
	Mycology (if available)	5		
	Parasitology (if available)	5		
	Mycobacteriology (if available)	5		
	Virology (if available)	5		
	Infection Control (if available)	5		
	Commercial Identification system	5		
	Sensitivity Testing	5		
Department ~ 2 weeks	Required Procedure	Minimum Level	Evaluation Acceptable? Y/N	Supervisory signature
Immunohematology	ABO / Rh	6		
	Direct Antiglobulin Test	5		
	Antibody Screen	5		
	Antibody identification <ul style="list-style-type: none"> • Associated techniques (enzymes, elution) 	5		
	Major Cross-match	5		
	Antibody Titer	3		
	Transfusion Policies (Types of orders, etc.)	3		
	Transfusion Reaction Policies	3		
	Transfusion Practice (Blood Components)	3		
	Fetal Screen/Kleihauer Betke	3		
	Autologous Blood Components	3		
	Cord Blood/RhIg Work up	5		
	Gel, tube or Microplate technology	3		
	QC/Maintenance	3		

Optional Procedures – Please Document if Student has observed or performed

- If your facility does any of the following supplemental procedure/tasks you are encouraged to document student's performance.

Student Name: _____

Department	Supplemental Procedure/Tasks	Evaluation Satisfactory? Y or N?	Supervisory Signature
Urinalysis (Optional)	Urine Porphyrins		
	Fecal Reducing substances		
	Automated urinalysis with microscopic		
Immunoematology (Optional)	Leukoreduced platelets and/or Red blood cells		
	Random Donor Platelets		
	Single Donor platelets		
	Packed Red Cells		
	Washed Red Blood		
	Frozen Red Blood Cells		
	Irradiated Red Blood Cells		
	Whole Blood		
	Fresh Frozen Plasma		
	Granulocyte Concentrate		
	Cryo AHF/Fibrinogen		
	Factor VIII and IX concentrate		
	Directed/Autologous Donation		
	blood substitutes		
	immune serum globulin		
	Normal serum albumin		
	plasma protein fraction		
	synthetic volume expanders		
	Rh Immune Globulin		
	Identifications/Problems with following systems: MNS, Lewis, P, I, Kell, Duffy, Kidd, Lutheran		
	High Titer Low avidity		
	special procedures:		
	adsorption		
	elution		
	Prewarming		
	Cold Antibody Workup		
enzyme treatment			
propylene glycol			
Antibody removal by ZZAP			
Cross match by computer			

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Department	Supplemental Procedure/Tasks	Evaluation Satisfactory? Y or N?	Supervisory Signature
Hematology (Optional)	Bone marrow evaluation		
	B-12 /Folate		
	plasma hemoglobin / Haptoglobin		
	Special Stains: PAS, Myeloperoxidase, Chloroacetate Esterase, Non Specific Esterase, TRAP, TDT, LAP		
	CD markers		
	Osmotic Fragility		
	Sugar Water Test		
	Hams acid		
	Factor V Leiden		
	Factor Assays		
	Lupus Anticoagulant		
	Clot retraction		
	ACT		
	Sickle Cell Prep		
	Protein C and S		
	Platelet neutralization		
	Plasminogen Assays		
	CD4 CD8		
	G6 PD spot test		
	PK test		

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Immunology (Optional)	VDRL		
	FTA		
	ANA		
	ASO		
	Thyroid Antibodies		
	Immunoglobulins		
	Complement		
	Hepatitis Testing		
	Rubella		
	CMV		
	HIV		
	Cold Agglutinins		
	Fluorometer		
	Immunodiffusion		
	Chemiluminometer		
	IRMA		
	Western Blot		
	Heterophile - Heterophile adsorption		
	Antihyaluronidase		
	Anti DNA ASE		
	ENA		
	Leukoagglutinins		
	Smooth muscle antibodies		
	Mitochondrial antibodies		
	Pareital cell antibodies		
	DNA ploidy		
	Febrile agglutinins		
	Mycoplasma		
	Chlamydia Antigen		
	Cryptococcus		
	Herpes		
	Rubeola		
	Varicella		
	Epstein Barr		
	HTLV1		
	Mumps		
	Lyme Disease		
	Rickettsia		
	T4/T8		
	Imunophenotyping		

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Student Name: _____

Department	Supplemental Procedure/Tasks	Evaluation Satisfactory? Y or N?	Supervisory Signature
Microbiology (Optional)	MIC		
	PCR		
	Cultures for single organisms (i.e. Legionella, Bordetella)		
	Genetic Probes		
	DFA		
	Antigen Testing		
	Toxin Testing		
Able to identify proficiently using standard tests	S.epi (Coagulase Negative Staphylococcus)		
	S aureus		
	Strep. Viridans (Viridans Streptococcus)		
	Beta hemolytic strep		
	Enterococci		
	Strep. Pneumoniaiae (pneumoniae)		
	E. coli (H7:O157)		
	Klebsiella, Serratia, Enterobacter		
	Proteus, Providencia, Morganella		
	Citrobacter		
	Salmonella/ Shigella		
	Pseudomonas		
	Neisseria		
	Moraxella catarrhalis.		
	Haemophilus		
	Aeromonas		
	Campylobacter		
Stenotrophomona			
Staphylococcus saprophyticus			
Pleisomonas			
Chemistry (OPTIONAL)	protein electrophoresis		
	immuno electrophoresis		
	fluorescence polarization		
	enzyme immunoassay		
	hormones		
	therapeutic drugs		
Lab Practices (OPTIONAL)	Daily Temperature and Function		
	Monitors		
	Basic Westgaard Rules		

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	Pipetting		
	Calculations/Dilutions		
	Levy Jennings Plot and Interpretation		
	Centrifugation		
	Decanting		
	Specimen inspection		
	Cost per test		
	Compliance Medicare		
	Compliance Notification		
	Compliance Procedure Manuals		
	Arterial Punctures		
	Phlebotomy Adults		
	Children		
	Other specimen collection		
	Method Validation		
	Procedure Manual		
	Communications		
	Personnel procedures		
	Reimbursement		
	Education		
	Other: To be completed by Clinical Affiliate		