

## Student Learning Outcomes for HTEC 82

*Clinical Coagulation Laboratory*

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### Team Members:

**Team Leader:**

[Debbie Wagner](#) (8790) in HTEC

**Other members:**

1. [Doris Spanggord](#) (x8341) BIOL

**Additional team members/notes about team:**

Thuy Vo Pinheiro, Cindy Press,  
Nayana Lowery

**Additional Notes:**

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### Outcomes:

**Outcome 1 Phase I: Statement**

Practice proper application of OSHA standards.

**Outcome 1 Phase II: Assessment Strategy Used:**

Assessment Quarter: Fall 2010

Assessors: Debbie Wagner

Assessment Tools:

Sections being assessed: 01

**Outcome 1 Phase III: Reflect & Enhance**

**Number of people involved in Phase III:** 2

**Changes:**

**Methods:**

Exam I; Using a rubric, students were observed and documented for their use of universal precautions during the exam

**Findings and Conclusions:**

Students scored 90% on this assessment. This is a mandatory requirement for anyone participating in our MLT laboratory courses, and also for anyone preparing for a career in this field. 90% is unacceptable for this SLO. Students were docked points on the rubric for not having their lab coat buttoned completely and leaving messy workstations.

### **Enhancement (Planned Actions)**

#### **Part I:**

The first laboratory session of this course will continue to cover laboratory safety and OSHA requirements. An additional "practice" exercise of this SLO will be included in the first few weeks of the course to give students feedback on their compliance with universal precautions before they are graded on their exam.

#### **Part II:**

N/A

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### **Outcome 2 Phase I: Statement**

Analyze blood samples for Protime (PT) and Activated Partial Thromboplastin Time (APTT) following proper techniques and procedures.

### **Outcome 2 Phase II: Assessment Strategy Used:**

Assessment Quarter: Fall 2010

Assessors: Debbie Wagner

Assessment Tools:

Sections being assessed: 01

### **Outcome 2 Phase III: Reflect & Enhance**

**Number of people involved in Phase III: 2**

**Changes:**

#### **Methods:**

Final exam: Students were asked to perform both PT and APTT testing on a sample during the final exam.

#### **Findings and Conclusions:**

The mean score for performing the PT test = 92%. The mean score for performing the APTT test = 96%. Students preparing for a career in the area of clinical laboratory medicine need to score high on technical tasks such as this assignment. A score of 90% on these tasks indicate that the SLO has been met and that the student has demonstrated the technical ability to follow procedures and perform routine coagulation testing.

### **Enhancement (Planned Actions)**

#### **Part I:**

Coagulation instrumentation is rapidly changing. Two of the instruments previously used in the student laboratory are no longer used in the clinical laboratory. Through Measure C a state of the art coagulation instrument was purchased and will be added to the course

curriculum for PT and APTT testing.

**Part II:**

N/A - up to date coagulation instrument has already been purchased by the MLT program.

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**Outcome 3 Phase I: Statement**

Identify abnormal PT and APTT results and correlate to possible causes.

**Outcome 3 Phase II: Assessment Strategy Used:**

Assessment Quarter: Fall 2010

Assessors: Debbie Wagner

Assessment Tools: *No tools assigned.*

Sections being assessed: 01

**Outcome 3 Phase III: Reflect & Enhance**

**Number of people involved in Phase III:** 2

**Changes:**

**Methods:**

Final exam: Students were asked 7 questions that related to identifying abnormal PT and APTT results and correlating these results with possible causes

**Findings and Conclusions:**

The students scored 95% on identifying abnormal coagulation results, but scored lower on relating those results to possible causes. In order for a student to be successful in a clinical laboratory profession, they need to develop critical thinking skills. These questions reflect that students need more practice in correlating abnormal results to possible causes.

**Enhancement (Planned Actions)**

**Part I:**

Course enhancement for this SLO includes using small groups to discuss case studies presented, identifying abnormal coagulation results and suggesting possible causes. Case studies can also be posted on Catalyst for student discussion.

**Part II:**

N/A - no additional resources needed for this course enhancement.

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