



An Education  
Initiative by  
Siemens  
Healthineers

# Lab Tech Upskilling and Specialization Programs

## Lab Tech Upskilling Program - Level 1

ESLTUPL1



### Learn on your schedule

Self-paced learning with Virtual Instructor led classroom training



### Get real employable skills

Learn from Industry Experts and reinforce by applying concepts



### Accelerate your career growth

Progress to the Specialization Program Level 2 and boost your job prospects

# Curriculum

Course code: ESLTUPL1

<b>Module 1</b>	Clinical Lab   Clinical Chemistry	
<ul style="list-style-type: none"><li>• Overview of Lab</li><li>• Types of specimens, specialties &amp; their functions</li><li>• Lab workflow process</li><li>• Key factors affecting sample quality and corrective action to reduce the occurrence of problems</li><li>• Identify principles of clinical chemistry &amp; potentiometry, test performed in clinical chemistry lab, reaction detection methods components of clinical reaction</li></ul>		Webinar by Expert Refresher 30 min + Q/A 30 min
<b>Module 2</b>	Immunoassay   Blood Gas   Patient Safety	
<ul style="list-style-type: none"><li>• Principles of antigen/antibody relationship</li><li>• Different tests used in clinical lab</li><li>• Detection methods used in Immunoassay testing</li><li>• Benefits to patient safety to decrease focus on punishing the individual when errors occur</li><li>• Examples that patients and families can be encouraged to do to improve the safety of their laboratory services</li><li>• Blood gas &amp; patient safety online modules will be assigned</li></ul>		Webinar by Expert Refresher 30 min + Q/A 30 min
<b>Module 3</b>	Hematology   Urinalysis   What Next & Learn For Tomorrow	
<ul style="list-style-type: none"><li>• Different blood cells &amp; functions</li><li>• Procedures for proper handling of Hematology specimens</li><li>• Identify common test, analytical methods performed in Hematology Lab</li><li>• Reasons for analyzing urine</li><li>• Important steps involved in analysis of urine, Identify disease states that can be identified by urinalysis</li><li>• Importance of performing urine analysis, kidney structures, function of key component, common types of specimen collected for urinalysis, proper specimen storage &amp; preservation prior examination</li><li>• Certification</li></ul>		Webinar by Expert Refresher 30 min + Q/A 30 min

## Lab Tech Specialization Program - Level 2

ESLTSPL2

	Improve Lab operational know-how		Benefit from flexible blended learning
	Build the foundation to successfully setup and operate an analyzer		Get one step ahead of others
	Increase knowledge of frequent analyzers used in Lab		Obtain Siemens Healthineers Certification

# Curriculum

Course code: ESLSPL2

ADVIA 2120i, 360 Hematology Systems	ADVIA Centaur XP/CP Immunoassay systems	Dimension EXL with LM Biochemistry System
<b>System and Hardware Overview</b> <ul style="list-style-type: none"><li>• Components, Reagents and Navigation</li><li>• UFC components</li></ul> <b>QC</b> <ul style="list-style-type: none"><li>• Samples and Results</li></ul> <b>Routine Operations</b> <ul style="list-style-type: none"><li>• Starting and Ending</li><li>• Process and Manage</li></ul> <b>Calibration</b> <ul style="list-style-type: none"><li>• Procedure and review</li></ul> <b>1 Live Webinar</b> <b>2 Hematology Systems</b> <b>9 Learning Modules</b>	<b>Centaur XP/XPT, Centaur CP Immunoassay Systems</b> <b>Software Overview</b> <ul style="list-style-type: none"><li>• Components</li><li>• Interface Overview</li></ul> <b>Hardware Overview</b> <ul style="list-style-type: none"><li>• ADVIA Centaur XP/XPT</li><li>• ADVIA Centaur CP</li></ul> <b>Routine Operations</b> <ul style="list-style-type: none"><li>• Supplies and Reagents</li><li>• Processing and Managing Samples</li><li>• Worklist Functions</li></ul> <b>Quality Control</b> <ul style="list-style-type: none"><li>• QC Online Training</li><li>• QC Version 3.2</li><li>• QC Version 2.5</li></ul> <b>Calibration</b> <b>Maintenance</b> <b>Basic Troubleshooting</b>  <b>1 Live Webinar</b> <b>2 Immunoassay Systems</b> <b>24 Learning Modules</b>	<b>System Overview</b> <ul style="list-style-type: none"><li>• HM Loci</li><li>• IMT</li><li>• Photometric System</li></ul> <b>Routine Operations</b> <ul style="list-style-type: none"><li>• Daily set up with CHK</li><li>• Reagent Management</li><li>• Reagent Monitoring and Preparation</li><li>• Sample Processing</li></ul> <b>Customization</b> <ul style="list-style-type: none"><li>• HIL</li></ul> <b>Calibration and QC</b> <ul style="list-style-type: none"><li>• Manual Calibration</li><li>• QCC</li></ul> <b>Maintenance</b>  <b>1 Live Webinar</b> <b>1 Biochemistry System</b> <b>11 Learning Modules</b>

Total of 44 Modules | ~30 Hours of Learning | 10 Days PEPconnect | 3 Webinars | Siemens Healthineers Certification

[Click here to know more and register online](#)

## Payment details

- Please enter the Course Code **ESLTUP** in the comments/text section during payment.
- Cancellation and Refund of course fee once paid is not applicable.

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For any queries, please write to [education.shsindia@siemens-healthineers.com](mailto:education.shsindia@siemens-healthineers.com)

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Disclaimer: This course only aims to create awareness and for knowledge sharing. This shall in no way construe to qualify the participants to perform/engage/associate with Siemens Healthineers.

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