LAB MANAGEMENT UNIVERSITY
ADVANCED

Program Overview and Course Listing

Summary of Program Requirements

- There are 10 courses available in the LMU Advanced curriculum
- You will need to complete all 10 required courses to complete the certificate
- Participants must complete the certificate three years from the original purchase date
- Residents have one year to complete the certificate from the original purchase date

Instructional Design & Continuing Education Credit

- Courses are delivered online and are approximately 90 minutes in length
- Many courses include prereading assignments, case studies, and knowledge checks
- Each courses includes a post-test and evaluation
- Each course offers 1.5 CME/CMLE or SAM Credit for a total of 25 credits at completion of the certificate

Course Listing and Descriptions

Analyzing and Managing Workflow in the Lab	
COURSE CODE: WMLM1402	**DESCRIPTION:** • Describe the benefits of workflow analysis and process improvement • Apply workflow analysis methods to lab processes • Examine the pros and cons for each possible solution • Examine the criteria for measuring improvement • Review success factors for implementation of new process
COMPETENCY: Operations	

The Benefits of Mentoring in the Laboratory Department	
COURSE CODE: WMLM1404	**DESCRIPTION:** • Develop effective mentoring skills for all technical and administrative levels within your organization. • Use mentoring as an effective practice recruitment tool. • Identify the mentoring opportunities suitable for your organization.
COMPETENCY: Personnel Management	

Strategic Planning and Performance Analysis for Your Budget

COURSE CODE: WMLM1406 **COMPETENCY:** Financial Management	**DESCRIPTION:** • Review the use of the strategic planning process in budget preparation. • Recognize the role of the entire laboratory and hospital staff in budget preparation. • Prioritize and justify the various components of the budget and identify tools to measure budget performance.

Lean Quality Improvement: A Practical Approach (enduring material)

COURSE CODE: WMLM1409 **COMPETENCY:** Operations	**DESCRIPTION:** • Improve participant skills in quality improvement methods, root cause analysis, and process redesign • Improve participant knowledge of simulation methods • Improve participant skills involved in recognizing bias in the diagnostic process

Managing the Utilization of Diagnostic Tests: Developing a Laboratory Utilization Management Program

COURSE CODE: WMLM1411 **COMPETENCY:** Operations	**DESCRIPTION:** • Identify the key elements of a utilization management program • Describe the types of intervention strategies that can be used to implement utilization management initiatives • Describe why pathologists are uniquely positioned to lead an institutional utilization management program

Pathology Personnel and The Challenge of Change

COURSE CODE: WMLM1413 **COMPETENCY:** Personnel Management	**DESCRIPTION:** • Define and understand change management • Learn to identify, anticipate, and respond to major changes in the laboratory environment • Identify and anticipate internal and external factors that could initiate significant workflow changes • How to manage personalities during significant departmental changes • Describe ways of reacting to change • Identify models and process strategies for helping change to be accepted and implemented in the workplace

Managing Your Lab

COURSE CODE: WMLM1414 **COMPETENCY:** Operations	**DESCRIPTION:** • Improve participants' understanding of and skill in project management methods. • Apply key philosophies in the contexts of planning, executing and closing of laboratory-based project management. • Demonstrate useful software and social collaboration tools for project management in the laboratory. • Analyze relevant case studies to prepare for and apply project management skills.

Harnessing Automation and Informatics to Improve Quality, Efficiency, and Turnaround Time in the Clinical Laboratory

COURSE CODE: WMLM1415	**DESCRIPTION:** • Participants will be able to identify practices in the clinical laboratory that may be amenable to automation including interference testing, dilutions, reflex testing, repeat testing, verification of results, and interpretive comments. • Participants will be able to recognize the benefits and challenges of auto-verification of clinical laboratory results. • Participants will be able to describe how to design, validate, and implement auto verification rules using CLSI guidelines as a guide.
COMPETENCY: Informatics	

How to Develop an Individualized Quality Control Plan: Laboratory Risk Management in Action (enduring material)

COURSE CODE: WMLM1416	**DESCRIPTION:** • Define risk management • Describe how to develop an individualized quality control plan • Identify CLSI EP23 guideline as a resource for developing a laboratory quality control plan based on risk management
COMPETENCY: Compliance	

Reimbursement in the Lab

COURSE CODE: WMLM1505	**DESCRIPTION:** • Outline the overarching contextual framework for reimbursement of laboratory services. • List examples of technical, professional and administrative services provided by laboratories. • List the general categories (sources) of reimbursement for laboratory and pathology services. • Provide specific examples of applicable reimbursement mechanisms for multistep laboratory studies and laboratory administrative services.
COMPETENCY: Financial Management	