



LEAN SIX SIGMA FOR MEDICAL LABORATORIES

Certificate Course

Duration: 1 Year

Mode: Hybrid (Online + Offline)

DEPARTMENT OF BIOCHEMISTRY
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, MANGALAGIRI

LEAN SIX SIGMA FOR MEDICAL LABORATORIES PROSPECTUS

1. Overview:

The All India Institute of Medical Sciences, Mangalagiri, Andhra Pradesh, under the Ministry of Health and Family Welfare, Government of India, proposes a Certificate Course in Lean Six Sigma for Medical Laboratories. This one-year hybrid program (online + offline) is accredited by the Consortium of Accredited Healthcare Organizations (CAHO) and the Asian Society for Quality in Healthcare (ASQUA). The course is designed to train healthcare professionals in quality management and process improvement in clinical diagnostics, enabling laboratories to achieve greater accuracy, efficiency, and patient safety.

2. Aims & Objectives:

The course aims to

- Provide participants with knowledge of Lean Six Sigma (LSS) methodologies applied to diagnostic laboratories.
- Train participants to implement Quality Management Systems (QMS) to reduce errors and optimize laboratory workflows.
- Enable healthcare professionals to lead quality improvement projects and align with global standards.
- Offer CAHO-accredited certification, strengthening professional credentials.

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3. Eligibility:

The course is open to the following categories:

- Medical professionals involved in laboratory services (biochemists, pathologists, microbiologists).
- Laboratory technologists and technicians.
- Healthcare administrators and quality managers.
- Postgraduate students in laboratory medicine and allied fields.

4. Course Duration and Structure

- Duration: 12 months (January – December 2026).
- Mode: Hybrid (Online + On-campus contact sessions).
- Break-up:
 - a. Online Classes: Monthly sessions (~6 hours each).
 - b. On-campus Contact Sessions: Three contact sessions of 3 days each (total ~9 days).
 - c. Capstone Project: Workplace-based quality improvement project.
 - d. Assessment:
 - i. Continuous assignments and write-ups.
 - ii. Written examination.
 - iii. Evaluation of Capstone Project by CAHO/ASQUA assessors.

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5. Course Coordinators & Resource Persons

- Dr. Desai Vidya Sripad, Professor & Head, Department of Biochemistry (NABL Technical Assessor).
- Dr. Gautam N., Assistant Professor, Department of Biochemistry (Lean Six Sigma Black Belt).
- Dr. Supraja P., Assistant Professor, Department of Biochemistry (Lean Six Sigma Black Belt).
- Guest faculty from CAHO and ASQUA for specialized sessions.

6. Admission Process

Candidates will submit a Google Form application with personal details and a short write-up on:

- *Quality Management Systems (QMS) in Laboratories*
- *Role of Lean Six Sigma in ensuring QMS.*
- Selection will be through screening and review of the write-up by the Course Coordinator and HOD, Department of Biochemistry.
- Decision of the Department will be final.
- Selected candidates will be notified and must pay the course fee online to confirm admission.

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7. Fee

- ₹20,000 (Rupees Twenty Thousand only) per candidate.
- Fees to be paid online (account details will be provided to selected candidates).
- The fee covers tuition, course materials, certification, and contact session logistics including working lunch and snacks alone.

Note: Accommodation, food (Breakfast & Dinner), and travel for participants are not included in the course fee.

- ₹5,000 (Rupees Five Thousand only) as endorsement fees for CAHO and ASQUA which will be paid directly at the end of course.

8. Facilities & Accommodation

- Contact Sessions: Lunch and refreshments will be provided during offline sessions.
- Guest House Accommodation: Available on a first-come-first-serve basis at AIIMS Mangalagiri Guest House, on payment as per institutional norms.

9. Accreditation

The course is accredited by:

- Consortium of Accredited Healthcare Organizations (CAHO)
- Asian Society for Quality in Healthcare (ASQUA)

Successful candidates will be awarded a Certificate in Lean Six Sigma for Medical Laboratories jointly by AIIMS Mangalagiri and CAHO.

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10. Important Dates

Opening of Online Applications	21 st December 2025
Last Date for Receiving Online Applications	30 th December 2025
Release of List of Selected Candidates	2 nd January 2026
Last Date for Payment of Fees	10 th January 2026
Commencement of Course	4 th week of January 2026

11. Link for Application: <https://forms.gle/ggjw1NLHsuzPDeZUA>

12. Contact

Department of Biochemistry

All India Institute of Medical Sciences (AIIMS), Mangalagiri

Email: gautam@aiimsmangalagiri.edu.in

Phone: 9390231115, 9107159999

Website: www.aiimsmangalagiri.edu.in