

FRMAC LABORATORY ANALYSIS WORKING GROUP UPDATE

Lab Analysis Working Group Update

INNOVATE. COLLABORATE. DELIVER.

Programmatic Improvements

- Onboarding of new responders at Lawrence Livermore National Laboratory, Remote Sensing Laboratory, Sandia National Laboratory, and Y-12
- Cross-training/drill with the Radiological Assistance Program – live radiological dispersal at Idaho National Laboratory and Texas A&M University Disaster city

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Training Development

Self-Paced Laboratory Analysis overview training (LA-050) now available online

~2hr course providing:

- CM/FRMAC high level overview
- Laboratory Analysis operations overview
- What to expect when receiving samples from FRMAC
- Data reporting overview

Gamma Spectrometry Fundamentals (~6 hrs)

- Overview of gamma spectroscopy physics
- Laboratory instrument setup and calibration
- Sample Analysis and reporting
- In-situ field gamma spectrometry

Laboratory Data Reporting (LA-075) – September 2023

Nuclear Incident Response Self-Paced Learning Opportunities

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AS-100: Introduction to Assessment Science

24 ABHP CECs

- 22 module course covering FRMAC Assessment methods for public protection, worker protection, and ingestion pathway [PNNS-KDXC](#)

Turbo FRMAC Advanced Methods

1 ABHP CEC each

- Administration of Potassium Iodide
Derived Response Level Calculation [OMXL-NMBV](#)
- Analytical Action Level Calculation [HZAK-EWAX](#)

LA-050: Support Laboratory Briefing

- What labs should expect when called to help FRMAC
[CMOT-EKHS](#)

LA-075: Laboratory Data Reporting (Sept 2023)

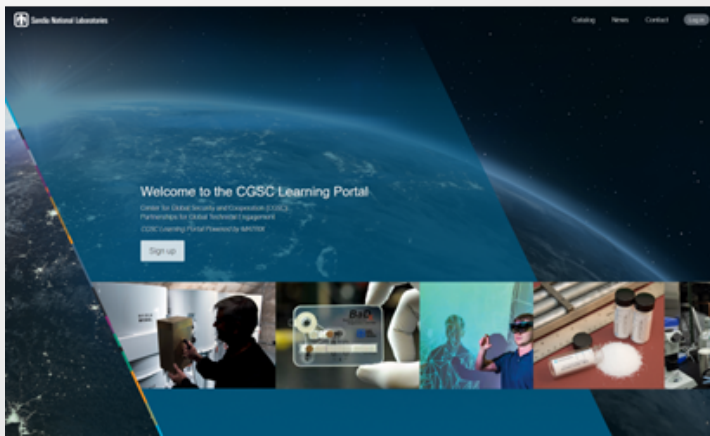
- Detailed walkdown of data reporting in CBRNResponder

Gamma Spectroscopy Fundamentals [ERXF-ZREQ](#)

- Detector Calibration Methods
- Sample Analysis
- Software Functions
- Mathematical Instrument Calibration
- True Coincidence Summing Corrections
- In-Situ Gamma Spectrometry

Sandia and partners have developed *free, online* training!

Learn more: <https://snl.matrixlms.com/>



Current Joint EPA/DOE FEMA-Nuclear Incident Response Team Projects

- Ground deposition sample analysis method round robin
 - Round robin exercise planned for early FY24
- New CBRNResponder mobile sample hotline check-in application (Feb 2024)
 - Streamlined sample check-in process
 - Ability to work in periodic offline or low-bandwidth environments