

# TRAINING PROGRAM 2024

ALYPZ RADIATION  
SAFETY, HEALTH,  
SAFETY &  
OCCUPATIONAL  
TRAINING





**WORKING TOWARDS**

**A SAFER ENVIRONMENT**

## ALYPZ MISSION

To help customers create a safe environment for their employees, business partners and communities around them by delivering quality services through industry relevant best practices.

## ALYPZ VISION

To be the one-stop solution provider for occupation health, safety, security and environmental assessment, and advisory services.

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Alypz evolved into provision of radiation protection consultation, management of radiation facilities and radioactive materials and audit on irradiating apparatus for medical facilities.

With our years of experience and available resources, Alypz has demonstrated its excellent ability to become a respected company, serving international corporations such as PETRONAS, SHELL, TOTAL, ExxonMobil, Kuwait Oil Company (KOC) and healthcare companies such as KPJ, Gleneagles and IHH Healthcare in providing a holistic management of health, safety, security, and environment (HSSE) at their workplace.

# ALYPZ SERVICES

## RADIOLOGICAL SERVICES

1. Radiation and Environmental Assessment Programme
2. TENORM/LSA Monitoring
3. TENORM Decontamination Services
4. Radiological Impact Assessment
5. Radiation Safety Analysis
6. Radioactive Balance Analysis

## TRAINING SERVICES

1. Radiation Safety Awareness Training
2. TENORM Safety Awareness Training
3. Radiation Protection Training for Officers
4. HAZMAT Awareness Training
5. Continuous Medical Education (CME)

## LABORATORY SERVICES

1. Radioactivity Analysis Laboratory
2. Radiation Dosimetry Services Laboratory

## EQUIPMENT SUPPLIES

1. Radiation Monitoring Equipment
2. Scientific Laboratory Equipment
3. Medical Equipment

## INDUSTRIAL HYGIENE SERVICES

1. Chemical Health Risk Assessment (CHRA)
2. Chemical Exposure Monitoring (IH1)
3. Local Exhaust Ventilation Inspection (IH2)
4. Indoor Air Quality Assessment (IAQ)
5. Noise Exposure Monitoring (NRA)

## RADIATION SAFETY SERVICES

1. Radiation Protection and Consultancy Services
2. Radiation Leak Test Services
3. Radiation Protection Program
4. Radiological Emergency Plan
5. Radioactive Security Plan
6. Import/Export & Transportation of Radioactive Materials

## MEDICAL RADIATION SERVICES

1. Quality Assurance Tests and Certification for Diagnostic Radiology Facilities,
2. Quality Assurance Tests for Associated Facilities
3. Leak Test for Sealed Source (Healthcare)



# ALM100 RADIATION SAFETY AWARENESS TRAINING

## ALM100 KURSUS KESEDARAN KESELAMATAN SINARAN



### **Introduction**

Alypz Sdn Bhd is a licensed training and consultancy agency approved by the AELB, Malaysia. We provide training and consultancy services for the sectors involved with radioactive materials and irradiating appliances.

The course provides the fundamentals of regulatory requirements, policies, and implementation practices for working with and supervising those who work with radioactive materials and irradiating appliances. The aim of this safety awareness training program is to help participants provide a safe environment for employees working in their organizations.

### **Who Should Attend**

Company RPO, radiation workers, AELB License Holder (OBTL), radiographer and researchers, personnel dealing with radiation material, equipment & TENORM, any employee who are interested in radiation protection / safety awareness.

### **Methodology**

- Participation Lecture
- Demonstration
- Discussion

### **Course Objectives**

- Understand the best practices of protection from radiation risks and accidents.
- Have detailed knowledge and understanding of ionizing radiation and their hazards and risks to our health.
- Understand the legal requirement under Act 304.

### **Course Contents**

- Fundamental of Radioactivity
- Radiation Unit
- Biological Effects of Radiation
- Radiation Safety
- Instrumentation / Radiation Detection
- Dose Limitation
- Radiation Protection Programme (RPP)
- Radiation Safety Procedures
- Emergency Plan
- Radiation Regulation in Malaysia

# ALM101 RADIATION PROTECTION TRAINING FOR OFFICER

## ALM101 KURSUS PERLINDUNGAN SINARAN UNTUK PEGAWAI



### **Introduction**

The exposure to radiation sources (TENORM, gauging) and irradiating appliances in various industries are increasing due to rapid development. To minimize radiation exposure, awareness among people dealing with radiation is important. The training is designed based on the standard syllabus for the Radiation Protection Officer (RPO) competency training, provided by the National Committee for the Certification of the RPO. The objective of this course is to provide the participants with complete information/knowledge before sitting for the RPO examination.

### **Who Should Attend**

Those who are looking to be certified as Radiation Protection Officer (RPO) and/or Radiation Protection Supervisor (RPS), safety officer, manager, supplier, medical officer, and those who are responsible for the safe use of ionizing radiation in various activities.

### **Course Objectives**

- Understanding the philosophy and principles of radiation protection in controlling the radiation exposure from ionizing radiation
- To enhance skills and knowledge that lead to safe practice of radiation safety at workplace.
- To prepare participant with complete information before sitting for RPO examination

### **Course Contents**

- Basic Information on Ionizing Radiation
- Principles of Radiation Protection
- Biological Effects of Ionizing Radiation
- Radiation Measurement and Monitoring
- Working Procedures in Handling the Irradiating Apparatus and Radioactive Materials
- Transportation of Radioactive Materials
- Management of Radioactive Waste
- Plan and Procedures for Radiological Emergency
- Atomic Energy Licensing Act and Radiation Protection Programme
- Radiation Safety Audit
- Safety and Security of Radioactive Materials
- Safe Working Procedures
- Demonstration / Practical



# ALM102 RADIATION SAFETY & EMERGENCY MANAGEMENT TRAINING

## ALM102 KURSUS PENGURUSAN KESELAMATAN & KECEMASAN SINARAN



### **Introduction**

This training will run concurrently with our ALM100 (Radiation Safety Awareness Training). On the second day of training, we will emphasize on the management of safety and security of radiation by teaching:

- Radiological emergency procedure planning.
- Radioactive materials transportation management.
- Radioactive waste management.
- Radiation Safety Management System.

### **Who Should Attend**

Those who are looking to be certified as Radiation Protection Officer (RPO) and/or Radiation Protection Supervisor (RPS), safety officer, manager, supplier, medical officer, and those who are responsible for the safe use of ionizing radiation in various activities.

### **Course Objectives**

- Understand the best practices of protection from radiation risks and accidents.
- Have detailed knowledge and understanding of ionizing radiation and their hazards and risks to our health.
- Understand the legal requirement under Act 304 and how to abide by it.

### **Course Contents**

- Plan and Procedures for Radiological Emergency
- Transportation of Radioactive Materials
- Management of Radioactive Waste
- Radiation Safety Management System
- Maintenance of Radiation Sources and Safety Equipment

### **Methodology**

- Lecture
- Tutorial
- Role play
- Demonstration
- Practical
- Case study
- Video presentation

# **ALM103R MERCURY AND HAZMAT AWARENESS COURSE**

## ***ALM103R KURSUS KESEDARAN MERKURI DAN HAZMAT***

### ***Introduction***

The Mercury and Hazardous Materials Awareness Training course involves the first half day of classroom-based theory, case studies and emphasis on mercury awareness plus its respective regulations. The second half of the day involves detailed information on Mercury Personnel Protective Equipment (PPE) both theoretical and practical applications. Theory of Mercury Decontamination and Waste Handling Process will be covered inclusive of handling, loading, transportation, and methods such as labels and markings.

The Alypz Mercury and Hazardous Materials Awareness Training course is designed to educate learners in the best approaches to handling all aspects of minor occupational related hazardous mercury issues encountered in the Oil & Gas Industry like contaminated materials, spills, and incidents in a controlled safe manner, as well as the accurate use of PPE, including the donning (putting on) and doffing (taking off) of PPE.



# **ALM104R NORM/TENORM AWARENESS COURSE**

## ***ALM104R KURSUS KESEDARAN NORM/TENORM***

### ***Introduction***

The NORM/TENORM Awareness course is designed for the awareness level only. This basic level of NORM/TENORM Awareness Course is designed to inform the employee where they can recognize the hazard and adhere to the safe working procedures when dealing with NORM/TENORM. The Course is typically provided for oil and gas operator employees and other workers who need to understand the risks of working around NORM/TENORM. We can conduct sessions at our facility or at a location of your choice. Upon completion of the course the participants will be familiar with

- What is NORM?
- Where the NORM comes from
- Basic radiation safety
- Biological concerns
- Radiation safety procedures
- Legislative requirements with regards to NORM/TENORM

Both of the courses listed above are available on request basis.  
Contact us and we'll set up a time and location convenient for you.

# CME CONTINUING MEDICAL EDUCATION

## CME PENDIDIKAN PERUBATAN BERTERUSAN



### **Introduction**

Alypz offer continuing Medical Education to enhance the doctors and radiographer knowledge regarding the basic of Ionizing Radiation, Radiation Protection, and updates on Radiography technique in Malaysia. For license renewal or professional development, doctors and radiographers will find high quality, accredited and non-accredited continuing education geared toward radiography assessment for every patient's needs.

### **Who Should Attend**

Doctors, radiographers, trained operators, any employee who are interested in radiation protection / safety awareness.

### **Course Objectives**

- Understand the best practice of protection from radiation risks and hazards in the medical sector.
- Have detailed knowledge and understanding of ionizing radiation and their hazards and risks to our health.
- Understand the legal requirement under Act 304

### **Course Contents**

- Basic Physics and Principles of Radiation Protection
- Radiation Hazards and Biological Effects of Ionizing Radiation
- X-ray Equipment and Associated Facilities
- Quality Assurance Programme (QAP) in General Radiography
- Legislative Requirement under Act 304 for Medical Purposes.

### **Methodology**

- Lecture
- Tutorial
- Role play
- Demonstration
- Practical
- Case study
- Video presentation



# ISO/IEC 17025:2017 | General Requirements for the Competence of Testing and Calibration Laboratories

## *INTRODUCTION, UNDERSTANDING & IMPLEMENTING*

### **Introduction**

The ISO 17025:2017 General Requirements for the competence of testing laboratories is the internationally recognized standard for independent accreditation laboratories. It specifies criteria for the development and assessment of management system and laboratory technical controls that provide confidence in the results obtained. The standard can be applied to a wide range of laboratory activities including analytical, clinical, forensic, destructive/non-destructive testing and instrument/equipment calibration.

### **Key Topics**

- Overview and requirements of ISO 17025
- Accreditation vs certification
- Inter-relationship with ISO 9001 quality management standards
- Structure of Quality System Documentation
- Implementing ISO 17025
- Source of information and further development

### **Learning Objectives**

By end of this Understanding ISO 17025 training course, delegates will be able to:

- Interpret the basic requirements of ISO 17025 and ISO 9001 Quality Management System
- Structure the Laboratory Quality System Documentation accordingly
- Initiate the process of implementing the requirements with a view to pursuing laboratory accreditation.

### **Who Should Attend**

- Laboratory Quality/Technical Manager
- Laboratory Technician/ Supervisors
- Assessor of Laboratory Management Systems
- Personnel responsible for procurement and evaluation of Laboratory Services
- Users of calibration and test services

### **Delivery Method**

The course takes place on your preferred date, at your offices, a venue of your choice or online. The one-way course includes 10 modules and interactive workshops, allowing your team to discuss how ISO 17025 can be implemented within your organization. Arrange for the course to take place on a date at a location which is convenient for your team.

### **Prerequisites**

There are no prerequisites to participate in this course

### **Duration**

2-day course



# ISO/IEC 17025:2017 | General Requirements for the Competence of Testing and Calibration Laboratories

## INTERNAL AUDITING

### Introduction

This two-day ISO 17025 Internal Auditor training course will equip delegates with effective auditing techniques and increase their understanding of audit principles in relation to ISO 17025, in order to improve evaluation and communication, develop more professional reporting and implement corrective action programmes. It is assumed that delegates attending this course will have a reasonable understanding of the requirements of the standard. Our ISO/IEC 17025:2017 Introduction, Understanding & Implementing training course is recommended if you need to increase knowledge on the ISO 17025 standard.

### Key Topics

- Overview of ISO 17025 requirements
- Coordination of a quality management system audit against ISO 17025
- How to construct an audit programme
- Audit planning, horizontal, vertical audits, and checklist
- The concept of risk-based audit
- Effective auditing techniques
- Witnessing tests and calibrations
- Evaluating the significance of audit finding
- Methods for improving communication skills during the audit.
- Nonconformity writing and audit reports.
- Developing and implementing corrective action
- Sources of information and further development

### Learning Objectives

By end of this course, delegates will be able to:

- Consolidate their knowledge of the requirements of ISO 17025
- Interpret requirements of the standard in a practical audit situation
- Apply auditing principles to objectively assess the compliance of a laboratory and identify areas to improve competency.
- Plan, conduct, report and follow up an internal audit.
- Develop continuous improvement that provides on-going future benefits to your company's growth and success.

### Who Should Attend

- Individuals wishing to perform internal laboratory audits.
- Laboratory Managers and supervisors
- Companies seeking ISO 17025 accreditation.
- Existing internal auditors who are looking to expand their skills in the area of laboratory practices.
- Supplier Quality Auditors wishing to evaluate laboratory service suppliers, including calibration suppliers.

### Delivery Method

The course takes place on your preferred date, at your offices, a venue of your choice or online. The course includes interactive workshops covering topics such as "Corrective Actions" and "Audit Interview" to allow your team to discuss how they will implement these ideas when undertaking internal audits within your organization. Our dedicated training course can be tailored to suit a range of your disciplines.

### Prerequisites

ISO/IEC 17025:2017 foundation training course

# ISO/IEC 17025:2017 | General Requirements for the Competence of Testing and Calibration Laboratories

## MEASUREMENT UNCERTAINTY

### Introduction

This in-depth course is designed to deepen delegates' understanding of the principles and practical applications of Measurement Uncertainty (MU) in a laboratory setting. Please ensure you read the prerequisites requirements for this course before booking to attend.

### Key Topics

- Describing what is measurement uncertainty.
- The principles and the need for measurement uncertainty
- The role in ISO/IEC 17025:2017 testing and calibration
- Measurement uncertainty on certificates and reports
- Application to decision rules
- Explanation of some confusing terms
- Traceability, Equations, and Methodological terms
- Probability distributions & statistical calculations, central limit theorem
- Sources of uncertainty budgets, reporting results
- Correlated quantities
- Decision and conformity with specifications

### Learning Objectives

By end of this course, delegates will be able to understand:

- A wide consideration of sources that contribute to uncertainty.
- A greater understanding of the evaluation and application of MU
- The knowledge and skills to organize uncertainty budgets and present an uncertainty estimate in reports and certificates.

### Who Should Attend

- Technical managers who manage to evaluate uncertainty.
- Technical team members who are part of the evaluation and estimation process
- Practitioners of uncertainty budgets are looking to develop their skills and understanding.

### Delivery Method

The course takes place on your preferred date, at your offices, a venue of your choice or online. The course includes interactive workshops to allow your team to brainstorm about factors that contribute to measurement uncertainty, calculating them and how they will be reported. Our dedicated training course can be tailored to suit a range of your disciplines.

### Prerequisites

ISO/IEC 17025:2017 foundation training course & understand basic mathematical statistic.

### Duration

3-day course



# ISO/IEC 17025:2017 | General Requirements for the Competence of Testing and Calibration Laboratories

## STATISTICS FOR THE LABORATORY

### Introduction

This in-depth course is designed to deepen delegates' understanding of the principles and practical applications of statistics in a laboratory for method validation, verification, and operational monitoring purposes.

### Key Topics

- Understanding the basic calculation of statistics for the laboratories e.g., standard deviation, standard deviation of mean, relative standard deviation (RSD), Repeatability (r), reproducibility (R), intermediate precision, limits of detection, bias/recovery, and others
- Evaluating data for outliers
- Statistical test e.g., Student t-test, f-test, one-way ANOVA, and others.
- Method performance test
- Approach for comparing test results e.g., with other laboratory, against CRM and published methods.

### Learning Objectives

By end of this course, delegates will be able to:

- Acquire sufficient knowledge to be able to select and apply the appropriate statistical techniques to the requirements in ISO/IEC 17025.
- Understand the concepts bias type and direction.
- Understand and be able to calculate measures of central tendency and of dispersion.
- Understand probability distributions and sample data distributions.
- Understand and be able to calculate confidence intervals.
- Be able to graphically represent and interpret data.
- Be able to use linear regression to create a least-squares line and to calculate the correlation between two numerical variables in a data set.

### Who Should Attend

- Technical managers who manage to evaluate uncertainty.
- Technical team members who are part of the evaluation and estimation process.
- Practitioners of uncertainty budgets are looking to develop their skills and understanding.

### Delivery Method

The course takes place on your preferred date, at your offices, a venue of your choice or online. This training program is hands-on with many worked examples to ensure that participants fully understand the concepts and calculations. To ensure adequate attention for each participant the class size is limited to not more than 15 people.

### Duration

Basic Statistics: 2-day course

Advanced Statistics: 3-day course



# ALYPZ TRAINING CALENDAR

TRAINING PROGRAMME NO. (SBL-Khas Application)	COURSE NAME	VENUE	DATE	AELB CEP POINT	FEE (SINGLE) No SBL-Khas	FEE (GROUP) No SBL-Khas	FEE (SINGLE) SBL-Khas	FEE (GROUP) SBL-Khas
1000180103	ALM 100 Radiation Safety Awareness Training  (Microsoft Teams Online Training) (1.5 Days)	Online	30-31/1/2024	7	RM550	RM530	RM650	RM600
			27-28/2/2024					
			18-20/3/2024					
			23-24/4/2024					
			28-29/5/2024					
			25-26/6/2024					
			30-31/7/2024					
			27-28/8/2024					
			24-25/9/2024					
			22-23/10/2024					
1000180104	ALM 101 Radiation Protection Training for Officer (RPO), Industry Level 3  (9 Days)	Alypz Training Center, USJ1	8-18/1/2024	-	RM2650	RM2550	RM2750	RM2650
			19-29/2/2024					
			15-25/4/2024					
			6-16/5/2024					
			4-14/6/2024					
			15-25/7/2024					
			5-15/8/2024					
			2-12/9/2024					
			7-17/10/2024					
4-14/11/2024								



# ALYPZ TRAINING CALENDAR

TRAINING PROGRAMME NO. (SBL-Khas Application)	COURSE NAME	VENUE	DATE	AELB CEP POINT	FEE (SINGLE) No SBL-Khas	FEE (GROUP) No SBL-Khas	FEE (SINGLE) SBL-Khas	FEE (GROUP) SBL-Khas
1000180108	ALM 102 Radiation Safety and Emergency Management Training  (Microsoft Teams Online Training) (2.5 Days)	Online	30-31/1/2024 -1/2/2024	15	RM750	RM700	RM830	RM780
			27-29/2/2024					
			18-21/3/2024					
			23-25/4/2024					
			28-30/5/2024					
			25-27/6/2024					
			30-31/7/2024 – 1/8/2024					
			27-29/8/2024					
			24-26/9/2024					
			22-24/10/2024					
			26-28/11/2024					
17-19/12/2024								
10001195125	(CME) Continuous Medical Education  (Microsoft Teams Online Training)  (Half Day)	Online	20/1/2024	-	RM300	RM350	RM350	
			17/2/2024					
			16/3/2024					
			20/4/2024					
			11/5/2024					
			8/6/2024					
			20/7/2024					
			17/8/2024					
			14/9/2024					
			12/10/2024					
			9/11/2024					
14/12/2024								

# ALYPZ TRAINING CALENDAR

TRAINING PROGRAMME NO. (SBL-Khas Application)	COURSE NAME	VENUE	DATE	AELB CEP POINT	FEE (SINGLE) No SBL-Khas	FEE (GROUP) No SBL-Khas	FEE (SINGLE) SBL-Khas	FEE (GROUP) SBL-Khas
	Radiation Protection Training for Medical (RPO), Industry Level 3 (9 Days)	Classroom USJ 1, Subang Jaya	4-14/6/2024	-	RM2550	RM2650	RM2650	RM2550
15-25/7/2024								
5-15/8/2024								
2-12/9/2024								
7-17/10/2024								
4-14/11/2024								
	International Radiation Protection Training for Officer (5 Days)	Online	27-31/5/2024	-	Please contact us for more details			
21-25/10/2024								

All other courses listed below are on request basis:

1. ISO/IEC 17025:2017 Internal Auditing
2. ISO/IEC 17025:2017 Introduction, Understanding & Implementing
3. ISO/IEC 17025:2017 Measurement Uncertainty
4. Statistics for the Laboratory (Basic Statistics)
5. Advance Statistics for The Laboratory
6. Mercury and Hazmat Awareness Course
7. NORM/TENORM Awareness Course

Please contact us for arrangement.

## Notes

1. "(Group)" refers to team registration discount. This applies to registration for 2 or more people from one organization.
2. Training Venues are listed. Changes to venue will be notified to registered participants.
3. The prices shown are inclusive of SST.

## CANCELLATION POLICY

Course cancellation must be done not later than 5 working days to the course date, failing which the full course fee will be charged. Substitution is welcomed any time before the course start date.

# ALYPZ TRAINING FACILITIES



## ALYPZ USJ TRAINING CENTER

1, Jalan Industri USJ 1/4, Taman Perindustrian USJ1, 47600 Subang Jaya, Selangor, MALAYSIA TEL: +603 8023 9200 FAX: +603 8023 6530



## KEMAMAN OFFICE

K 430 Tingkat 1, Taman Kemaman, 24000 Chukai, Kemaman, Terengganu, MALAYSIA  
TEL: +609 850 3333 FAX: +609 850 3330



## MIRI OFFICE

Lot 2562, Level 2, Jalan Bulatan Park, Bulatan Commercial Centre, 98000 Miri, Sarawak, MALAYSIA  
TEL: +6085 659 096 FAX: +6085 659 098



# ALYPZ TRAINING REGISTRATION INFO

Please login to <https://forms.office.com/r/rLazzqeZjm> to fill up our registration form.



## *PAYMENT*

1. Payments can be made using cash, cheque, and online banking.
2. All prices are subject to SST where applicable.
3. Cancellation is permitted 5 days before the event, any later is deemed billable.

### 4. Payment Information:

Account Name: Alypz Sdn. Bhd.

Bank Name: CIMB Bank Berhad

Account No.: 8002779080

Swift Code: CIBBMYKL

Country: Malaysia



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