Sedulitas

PEOPLE | PASSION | PRECISION

Welcome to Sedulitas

Ensure long term business viability and sustainability with healthy employees, and compliance with health and safety standards according to global best practices.

Helping you take Exposure Science to the next level.

Helping you take Exposure Science to the next level.

CONSULTING

Workplace and environmental monitoring, audits, radiation protection, data analytics, hazard maps, legal and ISO compliance evaluations, exposure and risk assessments and reports, and recommended solutions.

TRAINING

Whether you are starting your journey towards becoming an Occupational Hygienist, or wanting to enhance your skill set, we can help via our beginners' and intermediate level Occupational Hygiene Training Association courses – in person and online.

INSTRUMENTATION

We provide high quality, specialised environmental and occupational hygiene sampling instrumentation and PPE. Browse our online shop for the full range of our available equipment and consumables.

ENSURING LEGAL COMPLIANCE ACROSS THE GLOBE

Is your company legally compliant with Health and Safety Legislation in industry and mining? Wherever you are, whatever your company size, we can help you understand and mitigate the health and safety risks in your work environment, and assist you in your sustainability journey.

GLOBAL HEALTH AND SAFETY STATISTICS

The ILO global estimates are that around 2.3 million women and men succumb to work related accidents or diseases every year. This corresponds to over 6000 deaths every single day. Worldwide, there are around 340 million occupational accidents and 160 million victims of work related illnesses annually.

2 300 000

Estimated annual work related deaths

300 000

Estimated workplace safety related deaths

2 000 000

Estimated workplace health related deaths

WHY USE US?

Sedulitas has one aim – to offer bespoke solutions to workplace health and safety challenges, ensuring that workers remain healthy and safe. This empowers companies to be economically stable, sustainable, and optimally productive.
To achieve this, we apply sound exposure science in line with globally accepted best practices. We proudly:

- Offer tailor-made monitoring solutions for clients all across the world
- Use state-of-the-art equipment to ensure accurate monitoring and reporting
- Network with global leaders in exposure science to ensure that we always apply the most current scientific methods.

ABOUT US

We help you to improve your company's bottom line by creating and entrenching tailor-made HSE solutions that help keep your employees safe and healthy.

PETER-JOHN "JAKES" JACOBS
MANAGING DIRECTOR

SOUTH AFRICA

CINDY CERONIO
CHIEF ADMINISTRATION

ZARCO GELDENHUYS
EXPOSURE SCIENTIST

PRECIOUS MKHWANAZI
SERVICES SUPERVISOR

MALUSI KHANYILE
ENVIRONMENTAL MONITORING SPECIALIST

SIFISO MTHIYANE
MAINTENANCE TECHNICIAN

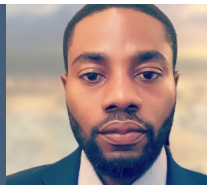
FRANCIS PRINSLOO
CAD SPECIALIST

JANSIE CORNELIUS
SALES ENGINEER

JANNIE ELS
DATA SCIENTIST

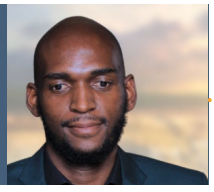
WEST AFRICA

COLLINS GAMELI HODOLI (PHD)
REGIONAL LEAD: SEDULITAS WEST AFRICA



BOTSWANA

KAGISO MABABE
SEDULITAS BOTSWANA COUNTRY LEAD



SERVICES

Sedulitas is a one-stop shop, offering occupational hygiene services, instrumentation, and training to anyone concerned with health, safety, and environmentally related matters.

With more than 25 years of specialised experience, Sedulitas is proud to offer the following range of services:

EXPOSURE ASSESSMENTS

Our exposure assessments offer detailed insights into both worker and public health risks in line with international and local norms and standards.

INSTRUMENTATION & PPE

We provide specialised sampling instrumentation as a turnkey solution for stressors. These include dust, ionising and non-ionising radiation, and specialised PPE such as Powered Air Purifying Respirators.

RISK ASSESSMENTS

Through the application of international best practise, we are able to perform detailed assessments of both worker and public exposure to health risks as identified from the health risk assessment process

AUDITING

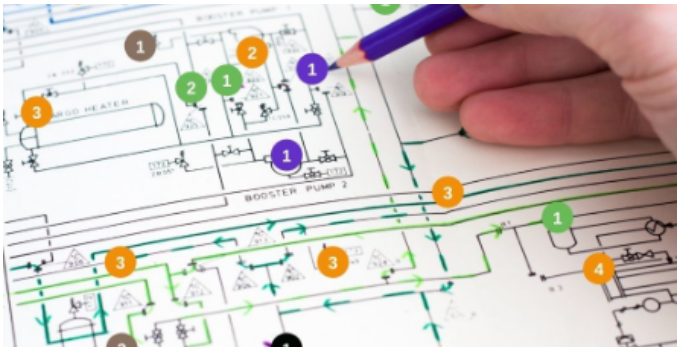
Assisting you with setting up HSE audit protocols, i.e. ISO/Legal, and performing audits to test compliance to such standards.

TRAINING

Would you like to become an Occupational Hygienist? We can get you started on that journey through international certification via the Occupational Hygiene Training Association courses we present.

RADIATION PROTECTION

Comprehensive radiation management services offered, including the compilation of Radiation Protection Programmes and the quantification of radiation exposure both to ionising and non-ionising sources.



HAZARD MAPS

We compile hazard maps from assessment data to allow for easy identification of hazards and hazardous areas within a working environment.

R&D PROJECTS

We believe in ‘next level’ exposure science and are continually involved in research projects – investigating and developing new and improved exposure control solutions.

TRAINING

SEDULITAS is an approved OHTA Course Provider and offers Occupational Hygiene Training Modules to promote improved standards of Occupational Hygiene Practice and train Hygienists to an internationally accepted and recognised standard.

The British Occupational Hygiene Society (BOHS) is awarding and examining body for OHTA modules. The international scheme recognises three levels of qualification:

FOUNDATION LEVEL

INTERMEDIATE LEVEL

ADVANCED LEVEL

OUR COURSES

W201

Basic Principles in Occupational Hygiene
FOUNDATION LEVEL

Aims

To provide an introductory course outlining the broad principles of Occupational Hygiene as the basis for anticipation, recognition, evaluation and control of hazards that can be encountered in the workplace.

On completing this course successfully the student will have a basic understanding of:

- *the value of occupational hygiene and the role of the occupational hygienist;*
- *the range of hazards [physical and chemical] in the workplace;*
- *hazard recognition techniques;*
- *sources and potential routes of exposure;*
- *hazard evaluation, exposure assessment and the measurement processes;*
- *methods of controlling exposure;*
- *the management of occupational hygiene programmes.*

W501

Measurement of Hazardous Substances
INTERMEDIATE - CORE

Aims

To provide a sound understanding of techniques for assessing exposure to hazardous substances in the workplace and with an understanding of how exposure information can be used to assess risk.

On completing this course successfully the student will be able to:

- *describe the general approach to health risk assessment, including the role of atmospheric monitoring;*
- *select appropriate equipment to measure specific airborne contaminants and devise a suitable sampling strategy;*
- *present the results in a form useful for health risk assessment purposes to enable management to comply with relevant legislation.*

W502

Thermal Environment
INTERMEDIATE - OPTIONAL

Aims

To provide a sound understanding of the effects of the thermal environment on people, and the means of assessing and controlling the risks associated with thermal stress.

On completing this course successfully the student will be able to:

- *Identify sources of thermal stress within the working environment.*
- *Understand the nature of thermal strain on the body.*
- *Assess the thermal environment through appropriate measurement and other means*
- *Evaluate the likely risk from exposure to thermal stress.*
- *Suggest appropriate control approaches for the thermal environment.*

W503

Noise - Measurement and its Effects
INTERMEDIATE - CORE

Aims

To provide the student with an appreciation of the nature of noise hazards in the workplace and the effects of noise on people. It also details the approach in carrying out noise assessments in the workplace and in the general environment, and to determine the significance of measurement data in relation to the various standards for compliance.

On completing this course successfully the student will be able to:

- *describe the consequences to health and well-being of excessive exposure to noise;*
- *understand the measurement (including dosimetry) of noise in relation to current standards;*
- *conduct surveys in the workplace to assess risks from noise;*
- *advise on the need and means of control including PPE;*
- *appreciate and advise on environmental noise assessment and concern;*
- *understand current standards and good practice in these fields.*

W504

Asbestos and Other Fibres
INTERMEDIATE - OPTIONAL

Aims

To enhance the student's knowledge of occupational hygiene practice in relation to fibrous dusts. The module concentrates on asbestos, but other fibres, eg. Machine made mineral fibres, aramids, carbon etc., which are increasingly finding uses in industry are also covered. Successful completion of this module will benefit those working in asbestos consultancy as well as in mainstream occupational hygiene, giving an understanding of the health risks associated with asbestos and other fibres as well as the means of evaluation and control.

On completing this course successfully the student will be able to:

- *describe the composition, nature and properties of asbestos, machine made mineral and other fibres and their historical uses;*
- *describe the health effects of asbestos and other fibrous materials and apply appropriate exposure limits;*
- *describe the uses of asbestos in buildings and the public health risk that these may pose;*

- *understand the principles of and requirements for asbestos surveys including taking samples and identifying bulk asbestos types by microscopic techniques including relevant safety requirements;*
- *be thoroughly familiar with current good practice in the construction and use of enclosures for asbestos remediation and the use of decontamination units;*
- *understand all the principles of clearance testing, the requirements for measurement and appropriate techniques for post remediation evaluation;*
- *conduct air sampling to determine airborne concentrations of asbestos or other fibres in accordance with defined procedures including microscopic counting techniques;*
- *have the ability to advise on all the various techniques for the management of asbestos in buildings in accordance with good practice.*

W505 Control of Hazardous Substances

INTERMEDIATE - CORE

Aims

To describe the ways in which exposure to hazardous substances arises in the workplace, and to introduce the methodologies and technologies available to control exposures and thereby reduce risks to health.

On completing this course successfully the student will be able to:

- *describe how airborne contaminants are generated by industrial processes, how this impacts on the control strategy, and how control solutions can thereby be optimised;*
- *recognise the range of approaches to risk reduction embodied in the hierarchy of control and select appropriate strategies for implementation;*
- *describe the meaning of "adequate control", particularly in relation to personal exposures;*
- *discuss the importance of design considerations in terms of the workplace, process, and plant, as a means of reducing occupational exposures;*
- *describe the principal elements of a local exhaust ventilation system, give examples of typical installations and know how to carry out the necessary measurements to assess whether a local exhaust ventilation system is effective and operating to the design specification;*

- *recognise the limitations of local exhaust hoods and enclosures and the means to optimise their effectiveness;*
- *describe how personal protective equipment programmes may be used in an effective manner;*
- *recognise the impact that control measures may have on other workplace hazards and understand the need to take a holistic approach to the design of control solutions.*

W506

Ergonomics Essentials
INTERMEDIATE - OPTIONAL

Aims

To provide a broad based introduction to ergonomic principles and their application in the design of work, equipment and the workplace. Consideration is given to musculo-skeletal disorders, manual handling, ergonomic aspects of the environment as well as to the social and legal aspects.

On completing this course successfully the student will be able to:

- *apply ergonomic principles to the creation of safer, healthier and more efficient and effective activities in the workplace;*
- *conduct ergonomic risk assessments;*
- *develop appropriate control measures for ergonomic risk factors;*
- *describe work-related causes of musculo-skeletal disorders;*
- *design a workplace according to good ergonomic principles;*
- *assess ergonomic aspects of the working environment and work organisation.*

W507

Health Effects of Hazardous Substances
INTERMEDIATE - CORE

Aims

To provide an introduction to the principles of toxicology, physiology and epidemiology. The course will cover the main types of harmful effects to target organs from exposure to chemical hazards at work, and the hazards associated with common hazardous substances.

On completing this course successfully the student will be able to:

- *provide definitions of commonly used toxicological terms;*
- *describe the main routes by which hazardous substances can enter the body, and the factors which influence their absorption, distribution, storage and elimination;*

- *describe the main sources of information on hazardous substances and processes;*
- *describe the main features of the principal target organs affected by hazardous substances at work, and the factors which influence the degree of harm;*
- *describe the main routes of exposure and toxic and health effects for hazardous substances commonly encountered in the workplace;*
- *carry out basic interpretation of the results from epidemiological studies.*

We present all courses **ON-LINE**, as well as at a pre-determined **VENUE**, depending on confirmed attendance.

Training is done by PJ Jacobs, a SAIOH Registered Occupational Hygienist, over 5 days.

Who should attend?

All Hygienists and all persons involved or interested in the health, safety and/or environmental management of a company.

OUR PRODUCTS

SEDULITAS is proud to partner with World-Class ISO Compliant Manufacturers to distribute top of the range real-time and near real-time monitoring equipment for worker, workplace, and public health hazard sampling.

We offer a wide range of products related to occupational health and safety.

AIR SAMPLING

Sensor Transmitters: Kimo-Sauermann

Wireless Data Loggers: Kimo-Sauermann

Connected Data Logger: Kimo-Sauermann

Sensor Transmitters: Kimo-Sauermann

USB Data Logger: Kimo-Sauermann

Mini Automous Temperature/ Humidity Data Logger: Kimo-Sauermann

Portable Tachometer CT 110: Kimo-Sauermann

Portable Tachometer CT 50: Kimo-Sauermann

Portable Thermo-Hygrometer CT 110: Kimo-Sauermann

Portable Hygrometer: Kimo-Sauermann

Portable Thermo-Hygrometer-Anemometer VT 210: Kimo-Sauermann

Portable Hotwire Thermo-Anemometer VT 110/115: Kimo-Sauermann

Portable Hotwire Thermo-Anemometer VT 50: Kimo-Sauermann

Portable Thermo-Anemometer LV 130: Kimo-Sauermann

Portable Hotwire Thermo-Anemometer LV 110/111/117: Kimo-Sauermann

Portable Thermo-Anemometer LV 50: Kimo-Sauermann

Portable Micromanometer MP 210: Kimo-Sauermann

Portable Micromanometer MP 130: Kimo-Sauermann

Portable Micromanometer MP 110/111/112/115: Kimo-Sauermann

Portable Micromanometer for Atmospheric Pressure: Kimo-Sauermann

Portable Micromanometer for Atmospheric Pressure: Kimo-Sauermann

Portable Multi-Function Air Quality Monitor: Kimo-Sauermann

Portable HVAC CO2 Monitor: Kimo-Sauermann

Portable HVAC CO Monitor: Kimo-Sauermann

Electric Contact Pressure Controller (ECM) for liquid column manometers: Kimo-Sauermann

Liquid Column Manometer: Kimo-Sauermann

KIGAZ 50 Economical: Kimo-Sauermann

KIGAZ 80 Compact: Kimo-Sauermann

KIGAZ 110 Essential: Kimo-Sauermann

KIGAZ 210 Flexible: Kimo-Sauermann

Portable Multi-Function Air Quality Monitor: Kimo-Sauermann

Portable HVAC CO2 Monitor: Kimo-Sauermann

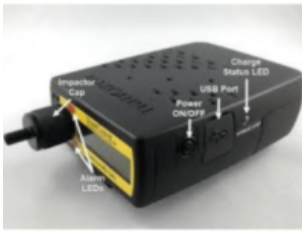
Portable HVAC CO Monitor: Kimo-Sauermann

KIGAZ 310 Expert: Kimo-Sauermann

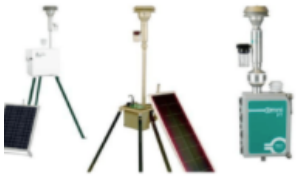
KNT320 Data Collector: Kimo-Sauermann

Aluminum Cyclone

Escort ELF Personal Sampling Pump
Escort ELF Personal Sampling Pump



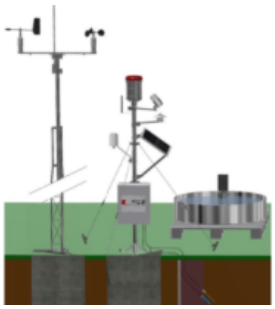
DustCount 9000 Personal Dust Monitor: NANOZEN



BGI Portable FRM Sampler

BGI CYCLONES – Environmental: MESALABS

BGI CYCLONES – Personal: MESALABS



KME Weather Station: LSI Lastem

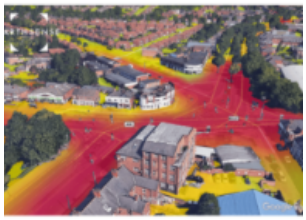
HEATSHIELD WBGT: LSI Lastem

HQ120 Thermo-Hygrometer

KCC320/KPA320 Air Quality Datalogger: Kimo-Sauermann

AMI310 Multifunction Air Quality Meter: Kimo-Sauermann

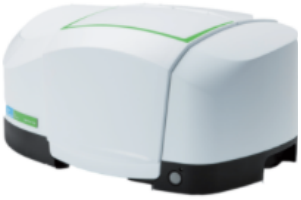
Si-AQ Indoor Air Quality Meter: Kimo-Sauermann



MAPPAIR High Resolution Mapping Of ZEPHYR Data

ZEPHYR Air Quality & Pollution Sensor: EARTHSENSE

ANALYTICAL INSTRUMENTATION



Spectrum Two FT-IR Spectrometer: PerkinElmer

CALIBRATORS

Sound Level Calibrator Cal150: Larson Davis

Sound Level Calibrator Cal200: Larson Davis

DryCal Defender 500 Series: MESALABS

Vibration Calibrator: CESVA

Acoustic Calibrator: CESVA

EMF & UV MONITORING

SMP2 Tripod

cMonitEM Wifi

cMonitEM Mobile

MonitEM Hybrid

MonitEM AC

MonitEM Solar

WaveMon LF-400 Low Frequency Personal Use EMF Monitor

WaveMon RF-60 OPersonal EMF Monitor To 60 GHz

WaveMon RF-8 Personal EMF Monitor To 8 GHz: WaveControl

EMF PROBES: WaveControl

SMP2-Selective EMF Monitor: WaveControl

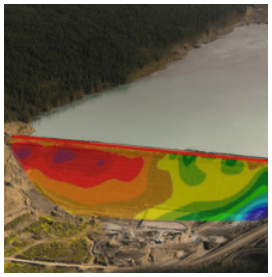
SMP2-Dual (Broadband & Selective) EMF Monitor: WaveControl

SMP2-Broadband EMF Monitor: WaveControl

Safester-UVI: SG Lux

Safester-UVC: SG Lux

GEOELECTRIC SOIL MONITORING



G.Re.T.A. (GeoResistivimeter for Time Lapse Analysis) – Permanent Geoelectric Soil Monitoring: LSI Lastem

ILLUMINATION MONITORING

Luxmeter: Kimo-Sauermann

NOISE MONITORING

Portable Audiometer Calibration System AUDCAL: Larson Davis

Sound Track LxT: Larson Davis

Artificial Mastoid Coupler: Larson Davis

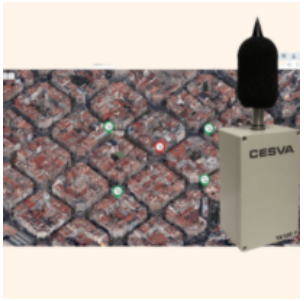
Precision Sound Level Calibrator Cal250: Larson Davis

Sound Expert LxT: Larson Davis

Sound Level Meter Model 831C: Larson Davis

G4 LD Utility Software: Larson Davis

Spartan 730IS Noise Dosimeter: Larson Davis



Noise Platform: CESVA

Sound Level Meter SC102: CESVA

Sound Level Meter SC160: CESVA

Sound Level Meter SC260: CESVA

Sound Level Meter SC310: CESVA

Accessory of Sound Level Meter 831: Larson Davis

Sound Level Meter Model 831: Larson Davis

Spartan Noise Dosimeter: Larson Davis

Noise Dosimeter

Outdoor Noise Sensor: CESVA

Sound Level Meter SC420: CESVA

Sound Expert LxT: Larson Davis

RESPIRATORY FIT TESTING

ACCUFIT 9000 PRO:
ACCUTEC-IHS

ACCUFIT 9000:
ACCUTEC-IHS

RESPIRATORY PROTECTION

Z-LINK

PAPR PX4/PX5

RESPIRATORY PROTECTION

Aluminum Cyclone

Membrane Filters

Standard Sampling
Cassette

EoS Sampling Cassette

VIRA-PORE Sampling Cassette

Asbestos PCM Sampling Cassette

Asbestos TEM Sampling Cassette

Sorbent Tubes

Gemini Twin Port Sampler

Coupler – Plastic

Coupler – Metal

Tygon Tubing

Equipment Carry Cases (S/L/Combo)

Vibration Damping Balance Table

BGI CYCLONES – Environmental: MESALABS

BGI CYCLONES –
Personal: MESALABS

VIBRATION MONITORING

Human Vibration
Meter: Larson Davis

Vibrometer: CESVA

CONTACT US

Send us a message and we'll get back to you within 24 hours.

Find Us

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