MINROM
mineral resource management

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Minrom Training Programmes

Minrom is proud to offer training in the geological exploration and mining geology disciplines based on industry standards, guidelines, best practices in meeting the client's needs. Minrom's training programmes are designed specifically for the client and will be scoped to address the specific requirements. Minrom's training programmes are designed to address the following key aspects of the geological discipline:

- Exploration Project Management (a short course with PMBOK Standards as a basis),
- Practical in the field geology, mapping, lithology identification, mapping, and sampling,
- Drilling Programme Scoping & Management, Core logging, Lithology logging, Geotechnical logging and Sampling,
- Computerised techniques utilised for Resource Modelling and Mineral Resource Management,
- How to compile a Geological report based on JORC requirements, including the JORC code and its requirements,
- Practical Field Surveying.

Minrom's can present the following training courses

1. **Exploration Project Management**

   This module is aimed at imparting the skills of initiating, planning, executing, controlling, and completing exploration projects by meeting the exploration team's specific goals and specific success criteria. The course is developed to identify the tasks at hand, and dividing the tasks into manageable components. The course also teaches the development of work breakdown structures (WBS), developing and managing timeframes using Gantt charts, setting budgets, work programmes, milestones planning, defining critical path ways, and budget reconciliations.

2. **Practical Field Geology**
   The course aims to expose the learner to practical field geology mapping. It focuses on answering the following questions: Where do I start with my mapping project? How do I map? What is the scale of mapping? What do I look at? When do I start sampling? How do I present my results? It includes transfer of techniques on how to use geological equipment and devices, collecting geological data, field observations, measuring/recording geological and structural features, and more.

3. **GIS & Remote Sensing** *(Producing Digital Maps from Field Data)*
   This module was designed to assist practicing field geologists to turn their geological data into a digital, usable, geological map. It also deals with basics in GIS, software usage, standard (and essential) map elements, and basics of remote sensing (using multispectral satellite imagery to assist in defining geological targets).

4. **Drilling Programme Scoping, Management, Core logging, & Sampling**
   Proper scoping of a project can make the difference between profitability and massive financial loss. This module focuses on the skills and techniques involved in scoping projects, setting up tender documents, as well as monitoring and evaluating tenders from health & safety, managerial, and financial perspectives.

   In this one to two-week course, depending on the client's requirements, the basics of setting up a drilling programme, sound tender practices and tender evaluations will be demonstrated. The course will focus on the on-site drill contractor safety management, daily drilling reporting, and drilling project progress reports. The course also includes practical instructions on core marking, core loss and gain logging, geotechnical logging, lithological logging, and sampling of core. The person will also learn about QA/QC and the custodianship and importance of the project samples. Site specific sampling protocols will be discussed together with deployment of JORC compliant methodologies.

5. **Database Setup & Management**
   Geological data is the most important data in a project as it forms the basis for all further work that will be performed. The geological 3D model forms the basis of the mine planning process, financial modelling, and project development. Therefore, this module focuses on collecting, evaluating, standardising, validating, storing and protecting geological and spatial data. Your geological data is your asset, learn how to use and protect it. Minrom will teach you the skills required in a systematic, easy to follow, step by step approach.

6. **3D Geological Modelling** (Micromine Project Specific Training)
   Minrom utilises Micromine for its Geological Model Construction and Resource Reporting as Micromine can be used for all exploration and mining geology/engineering requirements. The software can support your organisation in geological exploration, data management, resource estimation, 3D geological block model construction, mine design, production planning and scheduling, and production control. However, software is a tool and it is only as good as its trained user.

   Minrom will developed for the client, site specific training designed around your very own dataset. Therefore, this module is designed to train users on the fundamentals of Micromine software by utilising their own project data. The student will be supplied by a tailor made geological model. Therefore, training and implementation are achieved simultaneously. This will enable users, not only to use Micromine but to import, view and work with their very own data. The software further entrenches geological best practice and develops guidelines for the staff to implement procedures in the respective work units.

7. **Compilation of a JORC based Geological Reporting**
   Reporting codes can be very cumbersome and requires a high level of detail. This module addresses the most widely used standard namely the JORC Code. The module will illustrate and describe most of the do's and don'ts whilst constructing your geological report and whilst declaring resources. Similarly, the NI 43-101 and or SAMREC codes can also be presented, depending on the client's requirements. This module aims to enable geologists to understand what is entailed in reporting under these codes and what they mean to investors and buyers.

Additional Training Courses

1. **Introduction to Exploration Drilling Health, Safety, & Environmental Management**
   This module will demonstrate to the trainee how to implement health and safety protocols, safety standards, perform risk assessments and will illustrate how a geological exploration programme can be managed in a safe manner with limited impact on the environment.

2. **Introductory Surveying Skills**
   The incumbent will learn the basic concepts of surveying from setting up of, and using the differential survey instrument (Leica, Trimble, Total station) through to plotting, calculating, and modelling survey data. This course is a practical course and will be performed over a two-week timeframe. The incumbent will need to understand the basics of his survey instrument and will be required to have some knowledge of basic survey techniques.

3. **Survey Standards**
   This module will aim to enable the junior surveyor to setup a base and to survey from this base. It includes how to link and tie in your base with the government survey grid system and how to populate further survey bases and beacons, and the setting up of survey standards and locations and beacons. The incumbent will learn what good survey techniques are, the proper reporting of survey findings, and the management of the survey data.

In addition to the above Minrom does have the ability to develop tailor made modules in, sampling, setting up bush camps and the management thereof for the exploration geologist. For specific enquiries and for specific training needs please contact info@minrom.co.za.