

- Business management
- Basics of budgeting
- Developing a Banking or saving culture
- How to open a bank account
- Why banking rather than keeping your money in the house?

#### Module 10: Community Development

##### • Gender Equality

- What are sex & gender?
- Cultural factors that determine gender roles
- Constrains for women miners
- Rights, powers, roles and responsibilities
- Practical Activity
- Cultural & modern perceptions on power, roles and responsibilities of men & women

##### • Personal Development

- What is personal development?
- Personal development philosophy
- Application of personal development in small scale mining

#### Module 11: HIV/AIDS

- Introduction to HIV/AIDS
- HIV Awareness
- Which groups in society are exposed to higher risks of HIV/AIDS infection?
- Traditional practices that increase HIV/AIDS risks
- Confidentiality of HIV-test results
- HIV/AIDS Prevention
- Safer sex practices as a way to reduce HIV/AIDS risk
- Prevention of mother to child transmission
- Living with HIV/AIDS
- Dialogue with people living and working with
- HIV/AIDS



*SMALL SCALE MINING TRAINING CENTRE IS A MEMBER OF PNG- BAH*



Level 1 participants learn the basics of sluicing using a simple sluice box in Level 1 practical training.

The entire training program has a balanced relation of classroom training and practical exercises, 3 days of field trips to different mine sites in the vicinity and demonstrations of small-scale mining equipment.

*For more information and enrollment please enquire in writing to:*

**Small Scale Mining Training Centre  
PO Box 126  
WAU,  
Morobe Province  
Papua New Guinea**

*Or call or fax:*

**Mr. Samuel Leonhard  
Telephone: (+675) 71922394  
Facsimile: (+675) 474 6600**



## SMALL SCALE MINING TRAINING CENTRE WAU, MOROBE PROVINCE, PAPUA NEW GUINEA



# CONTENT OF LEVEL 1 COURSE SMALL SCALE MINING 2 WEEKS

**National Training Council Reg. No: NTC. 214**

### **Module 1: Background Information on Small Scale Mining in Papua New Guinea**

- Mining in PNG
  - What is mining?
  - Why are minerals mined?
- Mineral potential of PNG
- What types of minerals are mined in PNG?
- Institutional Framework
- Differentiation of Government departments from Statutory Institutions
- Role and tasks of different stakeholders
- Roles and functions of MRA
- History of Mining in PNG
- When did mining start in PNG?
- Traditional mining in PNG
- Land rights
- Periods of mining development (Past, present and forward)
- Role of the Mining Sector in the National Economy
- PNG's economic profile
- Investment trend
- Mineral production statistics
- Related and downstream processing

### **Module 2: Introduction to Laws Governing Artisanal & Small Scale Mining**

- Objectives of Mining Act and Regulation 1992 Mining Act
- Rights and obligations related to small Scale mining
- Application of selected sections of the Mining (Safety) Act and Regulations
- Basis for Environmental Regulations in PNG
- Mining Regulations
- Application procedure
- Objectives of Mining (Safety) Act & Regulations
- Implementation and monitoring
- Mining (Safety) Regulations
- Reporting procedure for accidents and incidents

### **Module 3 Introduction to Geology and Gold**

- Definition of Geology
- Why is geology important for mining?
- General Geology of PNG
- Mineral Identification
- Alluvial or free gold and related deposits
- How to look for Gold
- Testing the ground, sampling and assaying
- Gold Properties
- Gold purity
- Weighing of gold
- Selling and buying gold in PNG

### **Module 5: Introduction to Simple Mining & Processing Techniques**

- Planning of efficient mineral exploitation
- Mining methods
- Equipment Selection
- Small scale manual dressing and processes for placer gold
- Small scale manual dressing and processes for primary gold ores
- Gold panning
- Sluicing
- Water Access

### **Module 6: Introduction to Occupational Health and Safety**

#### **Legislative Summary**

- Mining (Safety) Act and Regulations
- Presentation of selected OH & Safety laws and regulations from other countries experiencing similar SSM activities as PNG
- Occupational Health, Safety & Welfare
- Presentation of National Health Plan
- Explain the importance of OH & Safety in mining Communities
- Socio-economic costs by non conformity with OH & Safety rules

- Application of basic calculations demonstrating the financial impact accidents and diseases have on mining communities because of non compliance
- Examples how to adopt simple personal hygiene procedures and basic mining safety rules to help improve conditions and reduce costs

### **Module 7: Environmental Issues in Small Scale Mining**

- Background information
- Definition of Environment
- Explain the importance of environment
- Legislative summary
- Environment Act
- Introduction to various types of pollution caused by SSM activities
- Environmental impact of small scale mining
- Reduction in Environmental Destruction and Pollution

### **Module 8: Introduction to Mercury in Small Scale Mining**

- Definition, Properties & Uses of Mercury
- Mercury Cycle
- Mercury Forms, Compounds & Chemical Species
- Toxicity of Mercury & Symptoms of Poisoning
- Amalgamation Principle
- Amalgamation Process
- Hazards in Amalgamation
- Mercury Recycling using Retorts

### **Module 9: Economics of Small Scale Mining**

- Know about small business
- The principal Economics of small scale mining
- Evaluate the Business Opportunity
- How and when to start a business
- Basic Bookkeeping
- Bookkeeping for small business