



MINING PROGRAMMES

ZAMBIA QUALIFICATIONS FRAMEWORK (ZQF) - LEVEL 6

SYLLABUS

**DIPLOMA
IN
METAL AND NON-METAL MINING TECHNOLOGY**

Programme No. 411

Prepared by:

Curriculum Development Unit,
Technical Education, Vocational and Entrepreneurship Training Authority (TEVETA)
P/Bag RW 16X,
Birdcage Walk,
Lusaka

Phone: +260211253211
E-mail: teveta@teveta.org.zm

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ACRONYMS

CLM	China Luanshya Copper Mine
DTH	Down The Hole
HNMVTC	Hunnan Nonferrous Metals Vocational and Technical College, China
NC	Numerical Control
PEC	Personal Entrepreneur Competence
ppt	Planned Production Tonnage
TEVETA	Technical Education, Vocational and Entrepreneurship Training Authority
VCR	Vertical Creval Retreat/ Vertical Crater Retreat
SZVCST	Sino-Zam Vocational College of Science and Technology
ZQF	Zambia Qualification Framework

1.0 ABOUT TEVETA

The Technical Education, Vocational and Entrepreneurship Training Authority (TEVETA) is an institution established under TEVETA Act No. 13 of 1998 read together with the Amendment Act No. 11 of 2005. Its functions include, to regulate, coordinate and monitor education, vocational and entrepreneurship training in consultation with stakeholders.

TEVETA executes its regulatory function through the provision of services, among others, the development, review and approval of TEVETA Curricula in consultation with industry, employers, employees and other stakeholders.

2.0 ACKNOWLEDGEMENTS

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S/N	NAME	POSITION	ORGANISATION
1.	Liang Chimin	Director	SZVCST
2.	Song Kai	Secretary General	National Nonferrous Metals Vocational Education and Teaching Guidance Committee
3.	Chen Zhixun	Vice President	Hunan Nonferrous Metals Vocational and Technical College, China
4.	Qiu Renwen	Curriculum Expert	HNMVTC
5.	Shen Deshun	Curriculum Expert	HNMVTC
6.	Zhao Yurong	Curriculum Expert	HNMVTC
7.	Wen Jing	Curriculum Expert	HNMVTC
8.	Wu Jian	Curriculum Expert	HNMVTC
9.	Zhang Hongcan	Curriculum Expert	HNMVTC
10.	Hu Xuemin	Curriculum Expert	HNMVTC
11.	Li Ting	Curriculum Expert	HNMVTC
12.	He Yan	Curriculum Expert	HNMVTC
13.	Zhang Lae	Curriculum Expert	HNMVTC
14.	Zhang Jun	Senior Translator	HNMVTC
15.	Ma Lingzhi	Senior Translator	HNMVTC
16.	Yan Shijie	Senior Translator	HNMVTC
17.	Kennedy Bowa	Manager-curriculum Development	TEVETA
18.	Wallace Samiselo	Lecturer	CBU
19.	Sitambi Kekelwa	Assistant Underground	CLM

		Manager	
20.	Wang Nan	Lecturer	SZVCST
21.	Ding Hulin	Lecturer	SZVCST
22.	Yamvwa Jorrick	Principal	SZVCST
23.	Sheyo Thwavula	Secretary	

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3.0 RATIONALE

Zambia is rich in mineral resources, including gold, silver, copper, cobalt, lead, zinc, iron, manganese and nickel; non-metallic minerals such as phosphorus, graphite, mica, barite and marble; and gem minerals such as emeralds, topaz, purple stone, aquamarine, malachite and garnet. The reserves of copper, cobalt, iron, coal and gemstones are especially abundant.

In recent years, Zambia has further opened up its mining investment market and developed its economy through various open policies. With the rapid growth of mining investment in Zambia, the mining industry, as the pillar industry of the country, has a particularly strong demand for basic skilled personnel in the metal and non-metal mining technology.

Therefore, it is against this background that the curriculum for Diploma in Metal and Non-Metal Mining Technology has been developed to train graduates who can meet the production needs of mines for mining development.

4.0 PROGRAMME PURPOSE

The programme is designed to provide trainees with knowledge, skills and appropriate attitudes in the field of metal and non-metal mining technology to enable them engage in the mining of mineral deposits, roadway construction and other work in the production line of metal and non-metal mines.

5.0 PROGRAMME OUTCOMES

On completion of the programme, trainees will be able to;

- 5.1 Carry out design of underground mining and tunneling
- 5.2 Design small scale stripping and mining of open pit
- 5.3 Carry out blasting design
- 5.4 Engage in mine production scheduling