

ARUSHA TECHNICAL COLLEGE

Tel.:+255 27 2503040/2075/2076

Fax No: +255 27 254 8337

P. O. Box 296, Arusha, Tanzania



Junction of Moshi-Arusha and Nairobi Roads

Email: principal@atc.ac.tz

Website: www.atc.ac.tz

MECHANICAL ENGINEERING DEPARTMENT

- 1.0. **SHORT COURSE TITLE:** Basics of Gemology
- 2.0. **HOST DEPARTMENT:** Mechanical Engineering Department
- 3.0. **PLACE/VENUE:** Arusha Technical College (ATC)
- 4.0. **COURSE DURATION:** One (1) week
- 5.0. **COURSE COST:** TZS 500,000 = (tuition fee and training materials).
- 6.0. **COURSE OBJECTIVES**

6.1. GENERAL OBJECTIVE

This course is intended to enable participants to acquire good up to date knowledge and skills in adding value and managing business in Lapidary and Jewelry/ gemstones produced in Tanzania.

6.2. SPECIFIC OBJECTIVES

At the job behavior level the program aims at increasing the participants' knowledge and skills in various methods and techniques of gemstones sorting and identification, instruments selection, formation and managing lapidary and Jewelry and store/ workshop.

7.0. COURSE OUTCOME

The participants will acquire knowledge and skills in sorting, identification and managing gemstones workshop/store. Furthermore participant will be capable of doing profitable business in gemstones

8.0. TARGET GROUP

- i. Small scale miners
- ii. Local people doing business in gemstones
- iii. People working in lapidary and jeweler workshop/business
- iv. People dealing with gemstones in East and Central Africa
- v. People who have completed form four and above

9.0. COURSE CONTENTS

- i. Gemstone identification technique
- ii. Instruments used to identify gemstones
- iii. Physical and optical properties of gemstones
- iv. Sorting and grading of gemstones
- v. Formation of gemstones
- vi. Localities of gemstones in Tanzania
- vii. Lapidary workshop management