

ARUSHA TECHNICAL COLLEGE

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MECHANICAL ENGINEERING DEPARTMENT

1.0.SHORT COURSE TITLE: Pneumatics and Hydraulics

2.0. HOST DEPARTMENT: Mechanical Engineering Department

3.0. PLACE/VENUE: Arusha Technical College (ATC)

4.0. COURSE DURATION: Four (4) weeks

5.0. COURSE COST: TZS 500,000 = (tuition fee and training materials only).

6.0. COURSE OBJECTIVES

6.1. GENERAL OBJECTIVE

This course is designed to equip a trainee with knowledge, skills and attitudes to enable him/her acquire competencies in automatic systems which utilizes the concepts of pneumatics, hydraulics, electrical, electronics and their combinations. Automation systems has emerged to be efficient as compared to traditional manual processes. This technology reduces lead time, improves quality by reducing human errors and is more accurate.

7.0.COURSE OUTCOME

Upon completion of the course, a trainee will be able to work with automated systems in factories and mines and control automatic machines.

8.0.TARGET GROUP

Technical personnel; (individuals, groups or institutions) who already have basics in automation systems but they wish upgrade their techniques. These can be engineers, technicians and artisans of mechanical, electrical, electronic or automotive specialization.