

Ministry of Higher and Tertiary Education, Science and Technology Development

MASVINGO POLYTECHNIC

DIVISION OF ENGINEERING

CIVIL AND CONSTRUCTION DEPARTMENT

1.0 PREAMBLE

Courses offered are designed to develop Construction workers with the knowledge, skills, and attitudes required to satisfy the needs of the Construction industry and related sectors of industry and commerce. The courses are offered on a full time basis where the trainees receive two years of institutional training and go on attachment for one year. The trainees will be assessed through continuous assessment, written examinations, research project and on the Job Education and Training.

Courses offered:

- 1) NC Brick and Blocklaying
- 2) NC Carpentry and Joinery
- 3) NC Plumbing and Drainlaying

2.0 COURSE AIM: NC BRICK AND BLOCKLAYING

The aim of the course is to equip students with knowledge, skills and attitudes which will enable them to effectively and efficiently execute onsite Brick and Blocklaying activities in the Construction Industries and related industries.

3.0 COURSE OBJECTIVES:

By the end of the course, students should be able to:

- Demonstrate an understanding of Brick and Blocklaying
- Design, draw, and interpret building drawings and plans
- Differentiate types of materials and their correct application.
- Apply quantitative techniques in solving Brick and Blocklaying problems.
- Demonstrate practical skills required in Brick and Blocklaying.

Apply basic Computer techniques in Brick and Blocklaying

Demonstrate a culture of entrepreneurship by coming up with a sustainable and viable business idea and running the business enterprises.

4.0 JOB OPPORTUNITIES

- Brick and Blocklaying Artisan
- Construction supervisor
- Shop Fitter
- Brick and Blocklaying Trainer /Instructor/Teacher
- Site Cleck/ Site Agent

5.0 COURSE AIM: NC CARPENTRY AND JOINERY

The aim of the course is to equip students with knowledge, skills and attitudes which will enable them to effectively and efficiently execute onsite Carpentry and Joinery activities in the Construction Industries and related industries.

6.0 COURSE OBJECTIVES:

By the end of the course, students should be able to:

- Demonstrate an understanding of Carpentry and Joinery
- Design, draw, and interpret building drawings and plans
- Differentiate types of materials and their correct application.
- Apply quantitative techniques in solving Carpentry and Joinery problems.
- Demonstrate practical skills required in Carpentry and Joinery.
- Apply basic Computer techniques in Carpentry and Joinery
- Demonstrate a culture of entrepreneurship by coming up with a sustainable and viable business idea and running the business enterprises.

7.0 JOB OPPORTUNITIES

- Carpentry and Joinery Artisan

- Construction supervisor
- Shop Fitter
- Carpentry and Joinery Trainer /Instructor/Teacher
- Site Cleck/ Site Agent

8.0 COURSE AIM: NC PLUMBING AND DRAINLAYING

The aim of the course is to equip students with knowledge, skills and attitudes which will enable them to effectively and efficiently execute onsite Plumbing and Drainlaying activities in the Construction Industries and related industries.

9.0 COURSE OBJECTIVES:

By the end of the course, students should be able to:

- Demonstrate an understanding of Plumbing and Drainlaying
- Design, draw, and interpret building drawings and plans
- Differentiate types of materials and their correct application.
- Apply quantitative techniques in solving Plumbing and Drainlaying problems.
- Demonstrate practical skills required in Plumbing and Drainlaying.
- Apply basic Computer techniques in Plumbing and Drainlaying
- Demonstrate a culture of entrepreneurship by coming up with a sustainable and viable business idea and running the business enterprises.

1.0 JOB OPPORTUNITIES

- Plumbing and Drainlaying Artisan
- Construction supervisor
- Pipe Fitter
- Plumbing and Drainlaying Trainer /Instructor/Teacher
- Site Cleck/ Site Agent

11.0 ENTRY REQUIREMENTS (Brick and Blocklaying, Carpentry and Joinery and Plumbing and Drainlaying)

- At least 5 O' level subjects including Mathematics, English and any Science subject

12.0 DURATION OF STUDIES

The three areas of training require three years of training each with two years of institutionalized training and one year of industrial attachment.

13.0 COURSE AND SUBJECTS OFFERED:

COURSE & LEVEL	ENTRY REQUIREMENTS	DURATION	SUBJECTS
National Certificate Brick and Blocklaying	5 O' level including English Language, Mathematics and any Science subject.	3 years	<ol style="list-style-type: none"> 1. Building Technology 2. Engineering Science 3. Construction Drawing 4. Workshop Practice 5. Engineering Mathematics 6. Introduction to Computers 7. National Studies 8. ESD 9. On the Job Education and Training
National Certificate Carpentry and Joinery	5 O' level including English Language, Mathematics and any Science subject.	3 years	<ol style="list-style-type: none"> 1. Carpentry Construction and Procedures 2. Joinery Construction and Procedures and Wood working Machine Practice 3. Engineering Science 4. Construction Drawing 5. Workshop Practice 6. Engineering Mathematics 7. Introduction to Computers 8. National Studies 9. ESD 10. On the Job Education and Training
National Certificate Plumbing and Drainlaying	5 O' level including English Language, Mathematics and any Science subject.	3 years	<ol style="list-style-type: none"> 1. Plumbing Theory 2. Drainlaying Theory 3. Engineering Science 4. Construction Drawing 5. Workshop Practice 6. Engineering Mathematics

			<ul style="list-style-type: none"> 7. Introduction to Computers 8. National Studies 9. ESD 10. On the Job Education and Training
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14.0 ENROLMENT PROCEDURE

Enrolment will be done in person at the Polytechnic on a date set for the interviews. Potential candidates are advised to contact the Head of Department of Civil and Construction Engineering for the intended course and enrolment.

15.0 REQUIREMENTS:

-Five O levels including English Language

For those with 4 O levels, a pass in NFC course will be considered as subject in that relevant and related area

16.0 DOCUMENTS.

A set of certified copies of birth, ID and school certificates together with original copies must be presented on registration. A written application letter (in applicants own handwriting) for the required course.

17.0 FEES: All applicants will pay an interview fee of \$10 on the day of enrolment.