

National Certificate: Multi-Disciplinary Draughting (MDDOP N4/5)

Overview

Our Multi-Disciplinary Draughting National Certificate is one of the best, and most popular qualification for a draughtsman. It is the most recognised draughting qualification in the industry as well as the pre-requisite for any further studies in draughting. It will introduce you not only to the fundamentals of draughting but also your draughting software tool and numerous draughting disciplines such as architectural, mechanical, structural, process plant and many more. It will prepare you for the MDDOP N4/N5 national examinations from the department of education.

Features and Benefits

1. This qualification will consist of 9 multi-disciplinary, cross - industry subjects that will include specialised, industry market-driven subjects such as building, mechanical, structural, electrical, process plant and others.
2. This multi-disciplinary approach provides a wide range of occupational options for optimal job market compatibility as it does not limit the student to a single discipline. It also allows the learner to choose a preferred specialisation early on in their career.
3. The qualification will also integrate up to ten internationally recognised CAD software courses, accepted by industry at the value of thousands of Rands, a critically advantageous consideration for any employer when considering new draughtspersons.
4. Scarce industry skills such as Project Management and BIM Management was added to further maximum employment success.
5. We utilise industry leading CAD/CAM/CAE software including Autodesk, Solidworks, Archi CAD and SketchUp ensuring that you are educated in theory as well as the industry used CAD software.



6. Students can also participate in an optional practical programme where they will learn the design to manufacturing process.

Admission Requirements

- Grade 12 with a drawing subject and Math Literacy
- No drawing subject at school? You can still apply but you must go through our Technical Bridging Course first, done 1 weeks prior to the start of the draughting qualification.
- No matric? You still have options. Do our Engineering National Certificate N3

Articulation Options

On successful completion of this qualification, you can articulate into the following:

- Direct access into the National Diploma: Architectural Technology NQF5 at first year level.
- Direct access into the National Diploma: Structural Steel Detailing NQF5 at first year level.

Mode of Delivery

Full Time / Part Time / Online

What you get

This qualification is designed to provide the student with multiple certificates and qualifications, both locally and internationally recognised by industry for maximum employability.

On completion the student will earn:

- The Draughting Academy Multi-Disciplinary Draughting Certificate.
- N4/N5 MDDOP National Certificate Accredited by the Department of Higher Education and Training (Upon completion of the DOE exams).
- Autodesk Certified Training Centre Certificate for each Autodesk course completed.

Duration:

Full Time = +- 8 Months (Classes run Monday to Friday, 08:30 - 15:45)

Part-Time = +- 12 Months, (Evening classes run twice/week, 18:00 - 21:00, Mon & Wed OR Tues & Thurs)

Online = +- 12 Months, (Online live classes, twice/week, 17:00 - 18:00, Mon & Wed OR Tues & Thurs)



SALARIES (ANNUAL)



SA

Draughtsman R77,872 - R359,566

Draughtsperson R82,122 - R359,569

Building Information Modeling (BIM) Manager R222,910 - R790,666



UK

Draughtsman £14,725 - £33,848

Draughtsperson £18,620 - £33,535

Building Information Modeling (BIM) Manager £28,115 - £56,149

Curriculum

PART 1: Multi-Disciplinary Core

During this part all students will learn draughting techniques in various different industries as well as a array of industry recognized and utilized software. The below diagram explains the industries and software.

THEORY SUBJECTS

- Drawing Office Orientation
- Mechanical Draughting
- Structural Steel Detailing
- General Draughting
- Building Draughting
- Electrical Draughting
- Pictorial Draughting
- Piping Draughting

SOFTWARE SUBJECTS

- AutoCAD 2D Fundamentals
- AutoCAD Electrical
- Autodesk Inventor Essentials
- AutoCAD Advanced
- AutoCAD P & ID
- Autodesk Revit Architecture

PART 2: Specializations (choose one)

During this part each student will choose a specialized industry in which they would like to focus on. We cover more CAD applications specific to each industry as well as additional subjects like project management and BIM management.

Mechanical:

- Autodesk Inventor Advanced
- Solidworks Essentials
- Project Management
- ArchiCAD Beginners
- BIM Management
- Project Management

Structural:

- Autodesk Revit Structure Essentials
- BIM Management
- Project Management
- Piping:
- AutoCAD Plant 3D
- Autodesk Revit Structure Essentials
- Project Management

Building:

- Autodesk Revit MEP
- SketchUp Beginners
- Civil:
- Civil Theory
- AutoCAD Civil 3D
- Project Management

PART 3: Workplace Preparation Module

The Workplace Preparation Module is designed for students to acquire the requisite skills and attributes to help you integrate into the world of work more easily. Move from the world of education to the world of work with essential and/or specialized skills that will improve your employment (or self-employment) prospects.

This program is done for all students and consist of:

- Preparing for an interview;
- Conduct and Behaviour During an Interview;
- Communication Skills;
- Understanding Legislation;
- Preparing the CV that Everybody Wants to See;
- Using Social Media;
- Starting the Job seeking Journey
- Registering on our recruitment portal.

Career Options

Anyone that would like to pursue a career as the following:

- Building Draughtsman
- Mechanical Draughtsman
- Piping Draughtsman
- Civil Draughtsman
- CAD Operator
- Electrical Draughtsman
- Structural Draughtsman

Study Kit

Your study kit is included in your fees and will contain:

- Free WIFI (3GB/Month, On Campus only).
- Autodesk student licenses valid for three years.
- Stationary including, Notepad, Sketchpad, A4 & A3 Paper and Tracing Paper
- Electronic Study Guides
- Orientation kit including: Student Card, Welcome Letter, Getting Started Guide.
- Access to myAcademy student portal and student support team via phone, email and tickets.
- USB 64GB with all required software applications.

myAcademy



Regulatory Information

AIE (Academic Institute of Excellence) has been granted provisional registration as a private college in terms of Section 31(3) of the CET Act and Regulation 12(4), with registration number 2018/FE07/003 for a period of three years. This programme is accredited, and quality assured by the Quality Council for Trades and Occupations (QCTO), accreditation number - SDP1220/16/0015 (Gauteng), QCTO NATD/15/0190 (Western Cape)

For more information, please contact a student advisor:
Gauteng: 011 262 5115 | Cape Town: 021 202 7890
info@aie.ac | www.aie.ac

