

COURSE OUTLINE FOR NID IN FACILITY MANAGEMENT TECHNOLOGY

The National Innovative Diploma (NID) Programme in Facility Management Technology is designed to train technicians with skills, knowledge and competences in first-line maintenance and services for air-conditioning, electrical, fire-fighting and protection systems, amenities, fittings and fixtures and finishes for residential and institutional facilities.

Entry Requirements

The entry requirements into NID in Computer Hardware Engineering programme include any of the following:

- 1) Five (5) credit level passes in GCE "O" level or Senior Secondary School Certificate (SSCE) at not more than two sittings. The five subjects must include **Physics, Chemistry, Biology, Mathematics, English.**
- 2) NABTEB

Curriculum

The curriculum of NID in Facility Management Technology Programme consists of four (4) main components. These are:-

- 1) General Courses
- 2) Foundation Courses
- 3) Professional/Core Courses
- 4) Supervised Industrial attachment

Curriculum Structure

The structure of the programme is made of four (4) semesters of classroom, laboratory, workshop and practical activities in the institution – and at least 3 months mandatory supervised industrial attachment.

Each semester shall have 18 weeks duration made up of:

- 16 weeks of contact learning and practical session
- 2 weeks for registration and examination.

Curriculum Table for NID in FACILITY MANAGEMENT TECHNOLOGY

NID 1: 1st Semester

Course Code	Course Title
CSK 501	Basics of Communication
GNS 111	Citizenship Education
MTH 101	Algebra & Elementary Trigonometry
COM 101	Introduction to ICT
MEC 102	Technical Drawing
MAT 111	Basic Electricity
FMT 111	Workshop Practice
MEC 113	Material Science/Strength of Materials
FET 113	Basic Notations of Utilities
FMT 112	Mechanical Services I
FMT 113	Pipe Installation I

NID 1: 2nd Semester

Course Code	Course Title
CSK 502	Communication Skills
MTH 112	Logic and Linear Algebra
FET 102	Engineering Component Design
FMT 121	Mechanical Services II
FMT 122	Pipe Installation II
FMT 123	Electrical Services I
FMT 124	Residential Air-conditioning I
FMT 125	Facility and System Maintenance I
FMT 126	Computer Aided Design
FMT 127	Fire Safety
FMT 128	Principle of Management I

NID 2: 1ST Semester

Course Code	Course Title
GNS 503	English & Communication Skills (Technical Report Writing)
EEd 126	Entrepreneurship I
FMT 211	Electrical Services II
FMT 212	Residential Air-conditioning II
FMT 213	Facility and System Maintenance II
FMT 214	Fire Protection System
FMT 215	Commercial Air-conditioning I
FMT 216	Integrated Building Management System I
FMT 217	Principle of Management II
FMT 218	Principle of Purchasing I

NID 2: 2ND Semester

Course Code	Course Title
EEd 216	Entrepreneurship II
FMT 221	Commercial Air-conditioning II
FMT 222	Integrated Building Management System II
FMT 223	Facility and System Maintenance III
FMT 224	Pipe Work Engineering Technology
FMT 225	Principle of Purchasing II
FMT 226	Final Year Project

COURSE OUTLINE FOR NID IN CONSTRUCTION TECHNOLOGY

The National Innovative Diploma (NID) Programme in Construction Technology is aimed at producing Technicians with entrepreneurial and technical capacity that are capable of performing basic function in Construction Technology practice, both in private and public sector.

Entry Requirements

Applicants with any of the following qualifications may be considered for admission into the National Diploma programme by direct entry.

(a) S. S. S. C or its equivalent (N. T. C. WASC. GCE O' Level) with credit in Physics and Mathematics and any other two subjects from the following: Further Mathematics, Fine Art/Technical Drawing, Geography, Economics, English Language, Chemistry/Biology, Agricultural Science obtained at not more than two sittings. Candidates are expected to have at least a pass in English Language.

(b) Four credit passes in relevant subjects as stated in (1) above obtained at the final examination of an NBTE recognized preliminary ND programme offered in a polytechnic or similar post – secondary technical Institution.

(c) NVC Holders

Curriculum

The curriculum of NID in Construction Technology Programme consists of four (4) main components. These are:-

- 1) General Courses
- 2) Foundation Courses
- 3) Professional/Core Courses
- 4) Supervised Industrial attachment

Curriculum Structure

The structure of the programme is made of four (4) semesters of classroom, laboratory, workshop and practical activities in the institution – and at least 3 months mandatory supervised industrial attachment.

Each semester shall have 18 weeks duration made up of:

- 16 weeks of contact learning and practical session
- 2 weeks for registration and examination.

Curriculum Table for NID in CONSTRUCTION TECHNOLOGY

NID 1: 1st Semester

Course Code	Course Title
MTH	Mathematics
CU	Communication Skills
CTD 113	Technical drawing
Ent	Entrepreneurship
CTD 101	Building Science and properties of materials I
CTD 103	Construction Technology I
	ICT I
CTD 105	Practical Skills in Construction Trades I
CTD 107	Building Site and Surveying I
CTD 109	Introduction to Building Measurement
CTD 111	Traditional Building Construction

NID 1: 2nd Semester

Course Code	Course Title
MTH	Mathematics
Com. Skl	Communication Skills
CTD 114	Building drawing
Ent	Entrepreneurship
CTD 102	Building Science and properties materials II
CTD 104	Construction Technology II
	ICT II
CTD 106	Practical Skills in Construction Trades II
CTD 108	Building Site and Survey II
CTD 110	Building Measurement and Specifications
CTD 112	Principles of Environmental Science

NID 2: 1ST Semester

Course Code	Course Title
CTD 201	Construction Technology III
CTD 203	Maintenance Technology
CTD 205	Practical Skills in Construction Trades III
CTD 207	Tendering and Estimating
CTD 209	CAD in Construction and Design
CTD 211	Principles of Law and Building Contracts
CTD 213	Site Management I
	Principles of Account
	Entrepreneurship
CTD 215	Introduction to Structural Mechanics and Theory of Structures
CTD 217	Building Services

NID 2: 2ND Semester

Course Code	Course Title
CTD 202	Construction Technology IV
CTD 204	Practical Skills in Construction Trades IV
CTD 206	Introduction to Structural Design and Detailing
CTD 208	Introduction to Civil Engineering Construction
CTD 210	Site Management II
CTD 212	Engineering Geology and Basic Soil Measurement
CTD 214	Construction Technician Principles

COURSE OUTLINE FOR NID IN WELDING AND FABRICATION TECHNOLOGY

The National Innovation Diploma in WELDING AND FABRICATION TECHNOLOGY is intended to produce Innovative Technicians in Welding and Fabrication for Innovation Enterprises, Self-Employment, Private and Public Sectors of Nigerian Economy.

Entry Requirements

The general entry requirements for the NID programme are:

- (i) Post-Secondary School Leavers with 5 Credit level passes in SSCE or equivalent in Physics, Chemistry, Mathematics, English Language and any other science or technical subjects, who are desirous of acquiring relevant employable skills.
- (ii) Unemployed or under-employed graduates looking for requisite employable skills.
- (iii) Employed graduates who desire relevant or additional working skills.
- (iv) Those out of school for a long time, in line with Government desire for open access to re-skilling and up-skilling of the nation's workforce as part of Life Long Learning (LLL).
- (v) Post NVC Final (articulation from the VEIs).

Curriculum

The curriculum of NID in WELDING AND FABRICATION TECHNOLOGY programme consists of four (4) main components. These are: -

- General Courses
- Foundation Courses
- Professional/Core Courses
- Supervised Industrial Attachment.

Curriculum Structure

The structure of the programme is made up of four (4) semesters of classroom, laboratory, workshop and practical activities in the institution – and a period of at least 3 months of supervised industrial attachment.

Each semester shall have 17 weeks duration made up of:

- 15 contact weeks of learning and practical applications
- 2 weeks for examination and registration.

Curriculum Table for NID in WELDING AND FABRICATION TECHNOLOGY

NID 1: 1st Semester

Course Code	Course Title
GNS 101	Use of English
END 101	Entrepreneurship Development
MTH 101	Algebra and Elementary Trigonometry
WFC 101	Technical Drawing
COM 101	Introduction to Computing
MEC 101	Mechanical Engineering Science
EEC 101	Introduction to Electrical Machines and Installation
WFC 103	Basic Workshop Technology & Practice

NID 1: 2nd Semester

Course Code	Course Title
WFC 102	Innovation and Acquisition of Technology
MTH 102	Calculus
WFC 104	Engineering Materials
WFC 106	Welding Metallurgy
WFC 108	Weld and Metal corrosion
WFC 110	Basic Elements of Welding and Fabrication Design
WFC 112	Welding Technology and Practice
WFC 114	Fabrication Technology and Practice

NID 2: 1ST Semester

Course Code	Course Title
GNS 201	Communication Skills
CAD 201	Computer Aided Design and Drafting (CADD)
WFC 201	Engineering Measurement
WFC 203	Underwater Welding & Cutting
WFC 205	Plastic Welding Technology
WFC 207	Machine Tool & Forging
WFC 209	Foundry Technology & Practice
WFC 211	Structural Steelwork

NID 2: 2ND Semester

Course Code	Course Title
WFC 202	Technical Report Writing and Presentation
WFC 204	Development and Assembly Drawing
WFC 206	Testing and Quality Control of Welds
WFC 208	Advanced Welding Processes
WFC 210	Advanced Fabrication Processes
WFC 212	Welding Economics & Management
WFC 214	Health, Safety & Environment
WFC 200	Final year project