NEW DELHI
EMPLOYMENT & TRAINING
DIRECTORATE GENERAL OF
MINISTRY OF LABOUR
GOVERNMENT OF INDIA

Issued by

CENTRAL APPRENTICESHIP COUNCIL

&
VOCATIONAL TRAINING
THE NATIONAL COUNCIL FOR
In consultation with

GOVERNMENT OF INDIA

As approved by

APPRENTICESHIP TRAINING SCHEME
UNDER

WINDER (ELECTRICAL)

SYLLABUS FOR
REPRESENTATIVES

TRADE OF "WINDEP (ARMATURE) ATS"

NAME OF MEMBERS OF THE TRADE COMMITTEE FOR THE
(2) Condenser : Condenser materials such as copper, aluminum, and mica are used in condensers. Condenser materials are chosen based on their electrical and thermal properties, size, shape, and cost. Condenser materials are usually made of copper, aluminum, and mica.

(3) Insulation materials : Solid, liquid, and gas are used as insulation materials.

(4) Conducting and Insulating preparation : Metal sheets, wires, and cables are used as conducting and insulating materials. These materials are used to form conductors and insulators in electrical devices.

(5) Electrical and Mechanical Assemblies : Electrical and mechanical assemblies are used to form electrical devices. These assemblies are used to connect and support the electrical components.

(6) Job documentation procedure : Job documentation is an important part of the electrical industry. It involves the recording and maintaining of job-related information.
SHOP FLOOR/APPRENTICESHIP TRAINING

MODULES

(3) Year

STATIONS FOR THE TRADE OF WINDER (A/C/DC)

A. Theory

1. Introduction to the Winder Operation

2. Identification of faults and interpretation of the winder and its parts

3. Inspection of winding materials in the winder

B. Practical Work

1. Preparation of core before winding

2. Preparation of the core before winding

3. Preparation of the core before winding

4. Preparation of the core before winding

5. Preparation of the core before winding

6. Preparation of the core before winding

7. Preparation of the core before winding

8. Preparation of the core before winding

9. Preparation of the core before winding

C. Balancing

1. Balancing: Principles of static and dynamic balancing

2. Balancing: Principles of static and dynamic balancing


5. Balancing: Principles of static and dynamic balancing


D. Inspection

1. Inspection points and inspection procedures

2. Inspection of winding machines and engines

3. Inspection of winding machines and engines

4. Inspection of winding machines and engines

5. Inspection of winding machines and engines

6. Inspection of winding machines and engines

7. Inspection of winding machines and engines

8. Inspection of winding machines and engines

9. Inspection of winding machines and engines

10. Inspection of winding machines and engines

11. Inspection of winding machines and engines

12. Inspection of winding machines and engines
And connectors inclusive of communication involved

During

Inspection of coil and folding over the insulation and wind

Investigation of insulation materials in the coils

The following operations:

Extrusion shop moulding on several winding, consisting

yb 11.4

and transformers DC machines

3-phase and single phase motor alternators, winding

Preparation of leads of common electrical machines such as

3 phases and single phase, motors, alternators, winding

Preparation of leads of common electrical machines such as

Inspection points and equipment used internal

2.1 Assessing and identifying faults, inspection, identification and

Filling and identifying faults, inspection, identification and

Information on different types of bearings, information systems,

Cams,

Final Assembly test to be conducted after winding

Principle of static and dynamic behaviour, description of

Balance:

6.4 Machining needed

Specifications of statics and dynamic behaviour, description of

3.3 Varnishing, painting and applying used

2.2 Production and applying used

1.1 Production of shop inspection in the manufacture of electrical machines and transformers. Assembly of common electrical machines and transformers.

Production of shop inspection in the manufacture of electrical machines and transformers.

Short circuit test on the following:

Electric-Mechanical assembly

Winding and winding terminal.dk.

Recognizing the primary of visual and test inspection. Discussion of the process of shop inspection, any of the primary defects and the corrective actions with special emphasis on assembly.

Introduction to the complete product shop observation and

MODULES

SHOP FLOOR INPLANT TRAINING

(3 years)

STANDARDS FOR THE TRADE OF WINDER (ATWDC)

(5)
The syllabus has already been approved and is same for all the rades.

Social Studies

Core: Economics, Geography, History, and Civics

7. Map reading of sectional views of amendments, core, switchgear technique.

6. Free hand sketching of electrical circuits and diagrams such as line

5. Free hand sketching of:


3. Advanced Blue Print Reading:

2. Revision of previous 2 year’s work.

1. Text Book

Books prescribed by C.I.T.I. for 1st and 2nd Year.

- Electricity Trade Theory, Trade Practical and Assignment Test

Books Recommended for Further Reading