I G N O U

CCPD

Assignment Booklet

Certificate of Competency in Power Distribution

(Electrical Technicians)

Programme Code:

CCPD

Course Code:

OEE-001

OEE-002

School of Engineering and Technology

Indira Gandhi National Open University

Maidan Garhi, New Delhi – 110 068

NOTE: Student are required to submit Assignment booklet for theory courses OEE-001 ,OEE-002 and Practical Workbook for practical course OEEL-001 separately.

Dear Student,

This booklet contains the assignments for the CCPD Programme for the theory courses of OEE-001; OEE-002. It is for your kind information that each theory course has one assignment, which is based on course material of these courses. You are also advised to write your responses after comprehensive study your subject.You can answer in English or Hindi,

This to inform that minimum duration of this programme is 6 months and maximum duration is 2 years.

You need to submit the assignments as under:

For January Session- By 30th April/May **; For July Admission Session-** By 30th October/November
You are advised not to wait for the last date to submit your assignments.

You can submit your assignment booklet for theory courses(OEE-001 and OEE-002) **-**

At your concerned Study Centre/ Regional Centre. Student are advised to get the acknowledgement/receipt while submitting assignment at Study Centre/Regional Centre concerned in order to fill up assignment submission details in your term end examination form. We strongly feel that you should **retain a photocopy of your assignment** answer sheet to avoid any unforeseen situation.

For Formatting of Your Assignments

- **On the top of the first page of your Tutor Marked Assignment (TMA) answer sheet**, please write the details exactly in the following format :

Enrolment No. _____	**Course Code**: _____
Name: _____	Course Title : _____
Date : _____	Address : _____
Regional Centre/ Study CentreCode:	Mobile Number: E Mail: Signature:

- Please follow the above format strictly to facilitate evaluation and avoid delay.
- Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- Leave 3 cm margin on the left, top and bottom of your answer sheet.
- Your answer should be logical and coherent.
- While solving problems, clearly indicate the question number along with the part being solved. Recheck your work before submitting it.

NOTE: Practical Workbook (Training/Internship/Field Visit) of Practical courseOEEL-001 is to be submitted separately at SED ,IGNOU,New Delhi. (refer page 5-14)

Wishing you all good luck!

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Printed at:

CCPD

TUTOR MARKED ASSIGNMENT

COURSE CODE: OEE-001

ELECTRICITY AND SAFETY MEASURES

Maximum Marks: 100
Weightage in TEE : 30%

Last Date of Assignment Submission: For June TEE by 30th April/May; For December TEE by 30th Oct/ Nov

Note: All questions are compulsory and carry equal marks.

Q.1 (a) What are various tools used in handling electrical installations. Explain with the help of neat diagrams.

(b) What is Grid?

Q.2 (a) Explain resistance, inductance and capacitance. Name various electrical appliances and mention the resistive, inductive and capacitive type of load these belong.

(b) What do you mean by active power, reactive power and power factor in electrical systems?

Q.4 (a) Explain different methods of equipment earthing.

(b) What steps are required for maintenance of earthing in electrical installations?

Q.5 (a) Describe working of protective relays. What are important functional requirement of relays?

(b) What is the difference between fuse and circuit breaker?

Q.3 (a) What are various quality parameters in electric power supply?

(b) What are the various problems faced by Generation, Transmission and Distribution system?

(Q.6 (a) What are various personal protective equipments to be used for safety?

(b) Give details of various types of fire extinguishers and their respective applications.

Q.7 (a)How can one perform cardiopulmonary resuscitation (CPR)?

(b) Prepare a list of checks to avoid hazards in ‘Main Board’ and ‘Lamps and Switches’.

Q.8 (a) Write Do’s and Don’ts for electrical safely in case of domestic consumers.

(b) Write down various measures, which can be taken to avoid fire in electrical cables.

Q.9 (a) Explain the concept of cardiopulmonary resuscitation(CPR). How it is facilitated.

(b) Write first aid treatment in case of a fall resulting in situation like:

(i) Unconsciousness, (ii) Nose Bleeding, and (iii) Fractures.

Q.10 (a) List various natural and manmade disasters and their impact on electrical power systems.

(b) Name some alternative power generating processes in case of a disaster.