

ABOUT CCPD COURSE

6 Months course “**Certificate of Competency in Power Distribution**” offered by IGNOU at NPTI(ER), Durgapur.

A BRIEF INTRODUCTION OF NPTI

National Power Training Institute (NPTI) has been set up by the Govt. of India under the ministry of Power, to function as the National apex body for Human Resource Development of Indian power sector. The corporate office of NPTI is located at NPTI Complex, sector-33, Faridabad-121003 (Haryana). It operates on an all India basis through its institutes in the different regions/power zones of the country viz. Neyveli, Durgapur, New Delhi, Nagpur, Faridabad, Bangalore and Guwahati. NPTI has 37 years of professional expertise in the field of training and HRD in power sector with industry specific technical interface and is the only institute of its kind in India catering to the core power and allied energy sector.

A BRIEF INTRODUCTION OF IGNOU

Indira Gandhi National Open University was established by an act of parliament in 1985 to achieve the following objectives.

1. To democratize higher education by taking it to the doorsteps of the students.
2. To provide access to high quality education to all those who seek it irrespective of age, region or formal qualifications.
3. To offer need-based academic programmes by giving professional and vocational orientation to the courses.
4. To promote and develop DISTANCE EDUCATION in India.
5. To set and maintain standards in distance education in the country as an apex body.

COURSE DURATION:

Minimum 6 months: Maximum 2 years

COURSE CONTENT:

The Certificate of Competency in Power Distribution for Technicians has been developed by the School of Engineering and Technology, IGNOU in collaboration with Ministry of Power, Govt. of India, US AID. India and the power finance corporation under the Distribution Reforms Upgrades the Management (DRUM) project.

1. BASICS OF ELECTRICITY AND SAFETY MEASURES (CODE OEE-001)

Block-1: Elementary Electrical & Exposure to Tools

Unit 1: Basics of Electricity

Unit 2 : Electrical Power System: Overview

Unit 3: Exposure to General Tools and Tackles

Block-2 : Safety Measures

Unit 1 : Safety Elements

Unit 2 : First Aid

Unit 3 : Disaster Management

Block-3 : Earthing & Protection

Unit 1 : Earthing

Unit 2 : Protection

2. POWER DISTRIBUTION SYSTEM (CODE OEE-002)

Block-1: Overview of Power Distribution System

Unit 1: Overhead Distribution System

Unit 2 : Performance of Power Distribution System

Block-2: Transformers & Substation Equipment

Unit 1 : Transformers

Unit 2 : Major Substations Equipment

Block-3: Metering, Billing & Theft Protection

Unit 1 : Metering

Unit 2 : Billing

Unit 3 : Theft Protection

3. PRACTICAL IN POWER DISTRIBUTION (CODE OEEL-001)

- Digging holes and Poles erection.
- Fixing different fittings on Poles such as Cross arms, Insulators, Stay wires etc.
- Stringing & sagging overhead line conductors.
- Jointing overhead line conductors.
- Installation of overhead service lines.
- Cable jointing, termination.
- Measuring earth resistance.
- Inspection & Routine maintenance of Transformers.
- Construction & installations of LTACB/HTVCB.
- Troubleshooting & maintenance of Circuit breakers & Panels.
- Installation & reading of Energy meters.
- Troubleshooting and common neutral problems.
- Checking accuracy and troubleshooting: Energy meters
- House wiring.

TERM-END EXAMINATION (TEE)

Theory examination will be held in January and December months of the year as per general time table of IGNOU. All procedure of IGNOU will be followed for question setting, testing, assignment and evaluation etc.

EVALUATION METHODOLOGY

Theory:

Term End Exams (TEE) : 70% weightage

Assignments : 30% weightage

Overall Pass Percent : Equal & more than 40%

Practical/ Laboratory:

Continuous evaluation : 70% weightage

Practical Exam/Viva-voce : 30% weightage

Overall Pass Percent : Equal & more than 50%

MEDIUM OF INSTRUCTION

English/Hindi (Course Material in Bengali language is being developed progressively)

SOME IMPORTANT ISSUES

1. You must bring your Identity Card to be issued by IGNOU , when you visit National Power Training Institute (ER) .
2. Attendance in the academic counseling session is optimal but 75% attendance in the practical session is compulsory, but it is always advisable to attend the academic counseling session because you will be able to interact with all very senior and experienced counselor in the class. This will help you to understand the special matter in depth. The learners may contact the NPTI (ER) through Phone/fax/e-mail.
3. Smoking inside the institute premises is strictly prohibited.

Program In- Charge

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