

**ABOUT HARTRON**

HARTRON is constantly striving to present the right tools, methods, and strategies that take the state of Haryana to a global level of excellence when it comes to technology. We want to empower everyone so that they can contribute and aid in optimizing information exchange in our State. Being a pioneer in Information Technology, HARTRON has numerous prestigious projects to its credit. The Voter Identity Cards Projects in India were first undertaken by Haryana and it became the largest database application in the country. Details of Voters along with their photographs were recorded and maintained with a projected accuracy of 98% making it a stellar success.

**SERVICES**

* ICT SOLUTIONS
* TELECOM & DATA SERVICES
* RESOURCING
* CALL CENTRE
* SCANNING & DATA DIGITISATION
* SKILL DEVELOPMENT
* START-UP INCUBATION CENTRE

**About IDDC-HARTRON**

Haryana State Industrial & Infrastructure Development Corporation (HSIIDC) erstwhile HSIDC had established Instruments Design Development & Facilities Centre (IDDC) Ambala under assistance of United Nation Development Programme (UNDP) in the year 1982. The mandate of IDDC was to provide wide range of facilities like Prototype Development, Consultancy, Manpower Training, Testing & Calibration etc. to around 400 electronic and scientific instrument units of Ambala region and as also to other industrial units of state of Haryana & neighboring states. IDDC centre has been instrumental in growth of Industry of region in general and that of Ambala in particular.

The industry was supported in Design & Development, Test & Calibration, prototype development, fabrication, job works, industry oriented human resource development etc. in fields of electronics, electrical, mechanical, optics and electroplating.

Almost every industrial unit / house of Ambala has been served by IDDC one way or another. Besides this, industry of Himachal, Punjab, NCR Delhi, Dehradun region, partly of J&K has also been served by IDDC-Hartron Ambala centre.

More than 150 projects were designed & developed for industry by IDDC since its inception. IDDC received National level “National Research Development Corporation (NRDC)” awards of Ministry of Science & Technology, GoI for –

* Wide Field Unit Magnification Telescope (Guidoescope) in year 1991.
* Educational Robot in 1988.

**Various activities being carried at our Centre are as below:-**

* **Technical Training** :

IDDC since its establishment has been conducting Technical training programs sponsored by various Departments/organizations of Central/State Govt.

Presently, 14 number of training courses sponsored by Directorate General of Resettlement (DGR) Ministry of Defence, Govt. of India for retiring/retired JCOs/Ors and their equivalent in IN and IAF defence personals in strength of 30-40 candidates in each batch have been allocated for the FY 2023-24 wherein around 420 number of candidates will be imparted training in three different courses titled below-

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| **Sr. No.** | **Name of course** | **Duration of course** |
| 1. | Entrepreneurship Development Programme in Electronics Instrumentation (EDP) | 12 weeks |
| 2. | Repair Maint of Radio, TV, DVD, Home appliances | 12 weeks |
| 3. | Electrical-Electronic Technician | 12 weeks |

**Content of Courses:**

**Course Name : Entrepreneur Development Programme in Electronics**

**Instrumentation**

Basic Electronics, Analog Electronics, Digital Electronics, Sensors/ Transducers, Testing & Measuring Instruments, Details Study of latest demand of Process Instruments and future requirements (temp, pressure, controller etc.), Workshop on Process instruments, Managerial/Supervisory Skills, Finance/Accounting, Market Research/sale, Project Proposal for industrial set up, Basics of Computer with MS-office application, GeM and E-tendering

**Course Name : Electrical / Electronic Technician**

Emf , ohm’s law, transformer construction and testing, cable and wires, overload line and line losses, circuit breakers and protective devices, lead acid battery, electricity in mines, motors and starters, electronics fundamentals, principles of radio power electronics, television working principle, common tools, magnetism, generation of electricity, motors, transformers, domestic appliances, wiring material, Table lamps, fans, metal and alloys, engineering drawing, electrical symbols, circuit diagrams, Indian electricity rules , Electricity, Meyers, voltage sources, capacitors, semi- conductors, transistor, transmission, digital electronics, Basics of Computer with MS-office application, GeM and E-tendering

**Course Name: Repair & Maintenance of Radio, TV, DVD Players and Home**

**Appliances**

Introduction to the field of Electrical and electronics, electronics and laws, sources of power, resistance, generation of AC, laws of electromagnet, capacitors, combination of coils and capacitors, semiconductor, simplifiers, oscillators, modulation, block diagram of radio transmitter, block diagram of a radio receiver, tape recording, introduction and history of television receiver, television controls, physical and electrical functions, fault finding with the help of block diagram and repair, power supply circuit diagram , common section circuit , sound section, video section, frame section, line section, overall receiver explanation, colour transmission, colour picture tube, luminance/chrominance signal, electronic RF tunner, VIF, SIF, ceramic filters, circuits, audio output circuit, Basics of Computer with MS-office application, GeM and E-tendering

* **Test & Calibration Lab**:

The Ambala Centre of Hartron namely Instrument Design Development & Facilities Centre (IDDC) is having Test & Calibration facilities since its inception in early 1980s. The testing facility is for finished products while calibration is of measuring instruments for manufacturing of products/processes. The industry of Ambala and nearby region has been utilizing the facility of the test & calibration lab since around more than 03 decades. Further, the industry of neighboring states and various state/central govt. departments/organizations were also our premier customers and around 200 different organizations/industry were utilizing the said services with 800-1000 equipments being tested and calibrated yearly at our lab. The test & calibration is carried for measuring instruments in the area of electro technical, mechanical and mass measurements. The said service is also rendered for weight boxes upto 200gm including fractional weight.

From the year 2019 onwards an initiative for conduct of workshop on standardization and calibration in the field of electronics/electrical/ mechanicals/optics and mass was undertaken at the premises of various engineering colleges/universities/polytechnics/ degree colleges/ITIs of the state. The said workshops were of great use to the teaching faculty/technical manpower of the institutes as well as the students of engineering colleges/universities/polytechnics/degree colleges/ITI. The workshop are intended for providing practical training of calibration and process generation for students/faculty of the institutes.

* **ICT-ET Lab**:

Government of Haryana vide Notification No. 42/164/2008-3GS-II dated 7th November, 2013 has decided that Haryana State Electronics Development Corporation Limited (HARTRON) shall conduct the State Eligibility Test in Computer Appreciation & Applications (SETC) for clerks. As per instruction dated 17.11.18, SETC shall be mandatory for all the currently working clerks (whether regular or contractual) for grant of increment in his/her pay scale. The definition of Clerk includes Clerk-cum Computer operator, Office Associate, Clerk-cum-Data Entry Operator, Steno-typists, Data Entry Operator and Clerk-cum-Typist.

Recently an ICT-ET test lab of 125 seats has been established at IDDC Ambala wherein SETC tests are being conducted monthly. Moreover, the tests for deployment/selection of computer professionals are also being conducted in the said lab.

* **Computerized Energy Billing for UHBVN & DHBVN**:

HARTRON has been generating computerized energy bills for various categories of consumers of UHBVN & DHBVN since 2003 from its established billing centres.

Meanwhile, in the year 2011, keeping pace with the technology and upon desire from UHBVN, Hartron procured RDBMS based energy billing application software for UHBVN using ASP.NET as front end and MS-SQL server 2008 R2 as back end for data security being the need of UHBVN. Prior to this Hartron was using visual FoxPro platform for generation of energy bills.

* **Optics lab** :

The optics lab has developed large number of import substitute components, sub-assembly and instruments for defence services. The lab has also provided technical facilities to the scientific industry of the nearby region by developing testing equipments for measuring optical parameters of the instruments. Presently the testing/calibration of refractive index of glass samples is being done at our optics lab.

**Contact Us:**

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Instruments Design Development & Facilities Centre(IDDC)

(A State Government Undertaking)

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