



HSDM

Haryana Skill
Development Mission

CERTIFICATION IN ELECTRONICS COURSE OF

FIELD TECHNICIAN COMPUTING AND PERIPHERALS

(ELE/Q4601)

Industry overview

The computer hardware industry provides a broad range of products. These include everyday items used in homes, businesses, and schools, such as desktop computers, monitors and keyboards; laptop computers; and peripherals like printers and scanners; as well as specialized or industrial items such as webcams, ATM machines, or data storage devices used by corporations, large and small. The industry employs workers of all education and skill levels. Computer scientists and engineers; development, design, and production engineers; system analysts and set-up specialists; service technicians; quality assurance specialists; and computer sales representatives are but a few of the career choices open to those seeking work in the computer hardware field.

About the program

This programme includes the ways of interacting with and understanding the customers requirements along with the procedure of installing the system and configuring peripherals such as the printers, scanners, and network devices. It also covers the diagnosing the problem and troubleshooting problems in the hardware. "Communication & Team Building Skills" is included in the programme which is required to achieve the deliverables & smooth work flow, in the Job. This program is designed for NSQF level 4.

Career Opportunities

The Field Technician provides after sale support services to customers, typically, at their premises. The individual at work is responsible for attending to customer complaints, installing newly purchased products, troubleshooting system problems and, configuring peripherals such as printers, scanners and network devices. They can work as IT Hardware support Engineer in companies like Dell, Lenovo, Hp, Canon. They can also run their own business and can become entrepreneurs.

Course Duration

400 Hrs

Who should attend it?

Minimum educational qualification: ITI or Diploma
Experience 1 year apprenticeship



Point of Contact
www.hsdm.org.in



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CERTIFICATION IN ELECTRONICS COURSE OF

REPAIR & MAINTENANCE OF DOMESTIC ELECTRONIC (ELCR/W14101)

Industry overview

The electronics industry encompasses a wide range of different manufacturing processes and products. The most visible products of the electronics industry are consumer goods such as television sets, music reproduction systems and computers. These visible products represent a tip of the iceberg situation as a large part of the electronics industry is concerned with the manufacture of the component parts of products. Other Home Appliances Field Technician Also called, 'Technician', this is an after sales service job for installing and support to the water purifier, mixer/grinder buyers. The individual at work installs the appliance and interacts with customers to diagnose the problem and possible causes. Once the problem and causes have been identified, the individual rectifies minor problems or replaces faulty modules for failed parts or recommends factory repairs for bigger faults.

About the program

The Program is about "Recognizing & Complying "safe working practices, environment regulation and housekeeping. It also includes understanding and practicing soft skills, OSH&E, working with Computer and communicating with required clarity. Knowledge of concept and principles of basic arithmetic calculation and apply knowledge of specific area to perform practical operations is also a part of the curriculum. It also covers time management, entrepreneurship and organizational task in day to day work for personal & societal growth. This program is designed for NSQF level 3.

Career Opportunities

After the completion of the course the candidate may work as a Service Technician in any Electronics company or Electronics Home Appliance Distribution outlet and would be responsible for repairing different Domestic electronics appliances like Washing Machine, microwave oven, steam iron, electric rice cooker etc. He may also start his own work.



Course Duration

420 Hrs

Who should attend it?

Minimum educational qualification: 8th class

Point of Contact
www.hsdm.org.in



CERTIFICATION IN ELECTRONICS COURSE OF

CCTV INSTALLATION TECHNICIAN (ELE/Q4605)

Industry overview

CCTV cameras offer a secure medium to monitor and record images and video. The demand for CCTV cameras for the purpose of surveillance has soared globally. This demand is attributed to the rising threat to public security due to criminal and terrorist attacks. Apart from public security surveillance CCTV cameras are used to monitor areas such as shopping malls, hotels, streets, banks, and government buildings. CCTV cameras vary on the basis of technology and model type. The CCTV camera market consists of a large number of software and hardware providers. The CCTV camera market value chain is characterized by system integrators and service providers. The CCTV camera market is highly competitive since it has a large number of hardware, software, and technology providers. Intense competition in the market affects the pricing strategy adopted by the players in the CCTV market. Investments in research and development initiatives is largely prevalent in the CCTV camera market.



About the program

This programme provides the exposure of visiting the customer's premises and checking the site conditions where the CCTV camera would be installed and deciding the system setup as per the site requirement. It also involves interacting with customer and understanding their requirement. It also imparts training of installing the CCTV camera in the customer premises as per customer's preference and connecting the camera to the system through cables. It also includes connecting the CCTV camera to the recorder and setting up the CCTV monitoring system for viewing and recording images as per customer's requirement. The course also focuses on individual's level of communication with colleagues and other departments within the organization. After the completion of the course the individual would also be able to work as a team member to achieve the required deliverables on schedule. This programme is designed for NSQF level 4.



Course Duration

400 Hrs

Who should attend it?

Minimum Educational Qualifications :ITI
Maximum Educational Qualification: Diploma
Experience: Minimum 6 months as helper

Career Opportunities

This job role involves Understanding the customer's requirements, installing the camera and CCTV hardware equipment and configuring the system for surveillance function. The individual may get a job as an Installation Engineer – CCTV in major organizations .



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CERTIFICATION IN ELECTRONICS & HARDWARE COURSE OF

DTH SET UP BOX INSTALLATION & SERVICE TECHNICIAN (ELE/Q8101)

Industry overview

Demand for Set Top Box Installers has increased according to "Human Resource and Skill Requirements in the Electronics & IT Hardware Sector (2022)" report, the Electronics and IT Hardware sector is expected to grow by 17% till 2022 which is going to be higher than the GDP in India. This will have a positive impact for the job roles falling under this sector. A part of this positive impact is an increase in demand for professionals who are classified under this sector or industry. The NSDC report also suggests that 1.2 million jobs will be created by 2022 in this sector due to the various emerging trends in the Indian society. All these factors put together is only going to increase the job opportunities for a Set-top Box Installer and Service Technician across towns and cities in India.

About the program

The Program includes installing DTH set top box at customer's place and to addressing service related complaints and interacting with customers to understand their service requirements. The program also includes the individual's level of communication with co employees and other departments within the organisation. It determines the ability to work as a team member to achieve the required deliverables on schedule. This program is designed for NSQF level 4.

Career Opportunities

After the completion of the course the candidate may work as DTH STB installer in major companies.

Who should attend it?

Minimum Education qualification: 8th Pass
Maximum Education qualification: ITI/
Diploma (Electronics/ Electrical)
Preferably experience of 2 years as helper
for 8th/9th passed.

Course Duration

340 Hrs



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CERTIFICATION IN ELECTRONICS COURSE OF

FIELD TECHNICIAN NETWORKING & STORAGE

(ELE/Q4606)

Industry overview

The electronics industry encompasses a wide range of different manufacturing processes and products. The most visible products of the electronics industry are consumer goods such as television sets, music reproduction systems and computers. These visible products represent a tip of the iceberg situation as a large part of the electronics industry is concerned with the manufacture of the component parts of product.

The Field Technician also called 'Service Technician' provides after sale support services to customers, typically, at their premises. The individual at work is responsible for attending to customer complaints, installing newly purchased products, troubleshooting system problems and, configuring hardware equipment such as servers, storage and other related networking devices .

About the program

The Program is about interacting with customer and understanding the repair and installation requirements for networking, storage or server equipment. The Program is also about installing the networking, servers and storage equipment as per the customer's requirement. It includes configuring and setting up the system and ensuring effective system functioning to satisfy the customer. This unit is about troubleshooting hardware related problems in networking, servers and storage equipment by diagnosing and replacing faulty module at client's premises. Further, the Program also includes the individual's level of communication with colleagues and other departments within the organisation. It determines the ability to work as a team member to achieve the required deliverables on schedule. This program is designed for NSQF level 4.

Career Opportunities

After the completion of the course the candidate may work as IT Support / Network support Technician in all the offices having IT support department, Customer support offices and Opportunity for self-employability.

Course Duration

400 Hrs

Who should attend it?

Minimum educational qualification: Diploma (Electrical, Electronics & Communications, Computer Science, IT and related)

Maximum Educational Qualification: B.E. (Electrical, Electronics & Communications, Computer Science, IT and related)

Experience : 1 year as Field Technician - computing and peripherals experience is desirable



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CERTIFICATION IN ELECTRONICS COURSE OF

FIELD TECHNICIAN OTHER HOME APPLIANCES

(ELE/Q3104)

Industry overview

The electronics industry encompasses a wide range of different manufacturing processes and products. The most visible products of the electronics industry are consumer goods such as television sets, music reproduction systems and computers. These visible products represent a tip of the iceberg situation as a large part of the electronics industry is concerned with the manufacture of the component parts of products. Other Home Appliances Field Technician Also called, 'Technician', this is an after sales service job for installing and support to the water purifier, mixer/grinder buyers. The individual at work installs the appliance and interacts with customers to diagnose the problem and possible causes. Once the problem and causes have been identified, the individual rectifies minor problems or replaces faulty modules for failed parts or recommends factory repairs for bigger faults.

About the program

The Program is about interacting with customers to understand their requirements and build confidence. The Program also includes installing the newly-purchased water purifier at customer's premises and moving from one customer's premise to another in order to rectify faults in dysfunctional water purifier as recorded by the customer with customer care unit. It also covers moving from one customer's premise to another in order to rectify faults in small appliances such as mixers, juicers, grinders as recorded by the customer with customer care unit about Further, the Program is about moving from one customer's premise to another in order to rectify faults in dysfunctional microwave as recorded by the customer with customer care unit and individual's level of communication with colleagues and other departments within the organization . It determines the ability to work as a team member to achieve the required deliverables on schedule. This program is designed for NSQF level 4.



Course Duration

400 Hrs

Who should attend it?

Minimum Educational: 8th Standard Pass

Maximum Educational: Qualification: ITI/ Diploma (Electrical/ Electronics)

Experience: Minimum 2 years as helper for 8th/ 9th passed

Career Opportunities

After the completion of the course the candidate may work as Home Appliance Repair Technician at major home appliance Companies .

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CERTIFICATION IN ELECTRONICS COURSE OF

MOBILE PHONE HARDWARE TECHNICIAN (ELE/Q8104)

Industry overview

Smartphones have been taking the world by storm. This situation is even more widespread in India, which is the fastest-growing smartphone market in the world (after China), with over 1.05 billion subscribers. The mobile phone market in India has grown exponentially in the past decade, and with the emergence of smartphones, the growth has increased substantially. With consumers upgrading to new devices more frequently and buying multiple devices throughout their lifetime, mobile phone brands realise the importance of customer lifetime value (CLTV) and the role service plays in acting as a differentiator for the brands. A good service experience helps establish the trust and loyalty among consumers for the brand. The unorganised repair market in India is thriving on the huge telecom boom we are facing right now. A lot of local electronic markets have cropped up with varied service options for the device. These shops give services, exchange parts and correct the faults with the phone.

About the program

The curriculum of the programme includes "Knowledge and Skills" to interact with customers and understand their requirements or problems faced with the Smartphone. It includes front end repairing where disassembling of hardware is not required. It also includes repairing the faulty module after identifying the problem, reworking and rectifying the module using various repairing tools and techniques. It is also about resolving software related problems. After the completion of the course, individual's level of communication with colleagues and other departments within the organization would also be enhanced. The curriculum is designed so that individual learns giving attention to details, patience, and ability to listen, steady hands, logical thinking, customer orientation and ability to work as a team member to achieve the required deliverables on schedule. The course also imparts knowledge about maintaining a safe, healthy and secure working environment. This programme is designed for NSQF level 4.



Course Duration

400 Hrs

Who should attend it?

Minimum Educational: Preferably graduate
Maximum Educational: Qualifications B.E
Experience of 1 year in hardware repair will be preferred

Career Opportunities

This job involves receiving the faulty smartphone, diagnosing the problem, deciding on corrective action, repairing the faulty smartphone, rectifying the software issues and ensuring effective functioning of the smartphone. He may work as Repair Technician in major electronics companies.

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**CERTIFICATION IN ELECTRONICS
COURSE OF**

SOLAR PANEL INSTALLATION TECHNICIAN

(ELE/Q5901)

Industry overview

Solar power in India is a fast developing industry. The country's solar installed capacity reached 20 GW in February 2018. India expanded its solar-generation capacity 8 times from 2,650 MW on 26 May 2014 to over 20 GW as on 31 January 2018. The 20 GW capacities were initially targeted for 2022 but the government achieved the target four years ahead of schedule. Panels have definitely picked up in the recent years for power generation. Experienced individuals with knowledge of solar power harnessing and panel architecture help placing and installing solar panels in households and commercial business centers.

About the program

This programme provides the "Knowledge and Skills" to assess the site conditions where the solar panels would be installed and to understand the customer's requirement and to arrange tools and materials required for solar installation. It also covers the mounting and installation of the solar panel at the customer premise, connecting the solar panels with the inverters and ensuring the functioning of solar power system. Modules on Individual's level of communication with co-workers and other departments within the organization to achieve the desired work flow are also covered in the programme. This programme is designed for NSQF level 4.

Career Opportunities

This job role involves assessing the installation site, understanding the installation pre-requisites, arranging for installation materials, mounting and installing the panels at customer's premises; and ensuring effective functioning of solar energy system after installation. They may work as Designing and Installation Engineer.

Course Duration

440 Hrs

Who should attend it?

Minimum Educational Qualifications: 10th Standard passed

Maximum Educational Qualifications : ITI/Diploma (electrical, mechanical)

Preferable Experience Minimum 6 months preferred but not mandatory in equipment installation



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