राष्ट्रीय इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी संस्थान
(रा.इ.सू.प्रौ.सं)

National Institute of Electronics & Information Technology (NIELIT)

छत्रपति संभाजीनगर केंद्र/**Chhatrapati Sambhaji Nagar Center**

इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त वैज्ञानिक संस्था

An Autonomous Scientific Society of Ministry of Electronics & IT, Govt. of India

Course Name:

Media Content Developer

Course Information

A Media Content Developer is expected to be proficient in several technologies that help in evaluating the functioning of Business Requirement Specification, User Requirement Specifications, Software Requirement Specifications and Low-Level Design in the web development domain. It is one of the high-demand jobs in the software industry/MNCs for development. The course focuses on teaching the principles of creating effective Media content including the graphic design principles that relate to media content and learn how to implement theory into practice. Individuals who undergo this course may research, prepare, write, and edit online content for marketing and front-end of website.

Eligibility

➢ 12th Grade Pass or
➢ 10th grade pass with 2 years of relevant experience* or
➢ NSQF Level 2 with 3 years of relevant experience*
   *Relevant Experience: Computer Operation

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Evaluate the functioning of Business Requirement Specification, User Requirements Specification, Software Requirements Specification and Low-Level Design in the web development domain.
- Examine how assumptions, constraints, interfaces determine the process of web designing.
- Collate basic programming structures related to High Level design/Low Level Design and monitor the same.

- Examine how to create software code that is efficient, readable, and maintainable.
- Illustrate the various forms of coding tools required for software applications and web designs.
- Convert requirements into web content and graphic designs, leveraging reusable components.
- Discuss the technical validation of a web's HTML implementation.

Modules

NOS and Module Details	Theory Duration(In Hours)	Practical Duration(In Hours)	Total Duration(In Hours)
Module 1: Analysis and design of web-based applications	21:00	39:00	60:00
Module 2: Develop media content and graphics. designs for software products and applications	15:00	30:00	45:00
Module 3: Interpret design specification	20:00	25:00	45:00
Employability Skills (60 Hours)	24:00	36:00	60:00
Module 4: Introduction to Employability Skills	00:30	01:00	01:30
Module 5: Constitutional values - Citizenship	00:30	01:00	01:30
Module 6: Becoming a Professional in the 21stCentury	01:00	01:30	02:30
Module 7: Basic English Skills	04:00	06:00	10:00
Module 8: Career Development & Goal Setting	01:00	01:00	02:00
Module 9: Communication Skills	02:00	03:00	05:00
Module 10: Diversity & Inclusion	01:00	01:30	02:30
Module 11: Financial and Legal Literacy	02:00	03:00	05:00
Module 12: Essential Digital Skills	04:00	06:00	10:00
Module 13: Entrepreneurship	03:00	04:00	07:00
Module 14: Customer Service	02:00	03:00	05:00
Module 15: Getting ready for apprenticeship & Jobs	03:00	05:00	08:00
Total Duration	**80:00**	**130:00**	**210:00**

Course Name:

Software Developer Associate

Course Information

➢ A Software Developer Associate course is intended to be expert in implementing appropriate standards to assist in performing software construction as per specifications.
➢ The purpose of the course is to help individuals perform different aspects of software development.
➢ This course focuses on teaching how to evaluate different software testing methodology and identify the correct one to deploy.
➢ This Qualification will equip him/her with the appropriate development skills, attention to detail and problem-solving ability required for the role.

Eligibility

➢ 12th Grade Pass or
➢ 10th grade pass with 2 years of relevant experience* or
➢ NSQF Level 2 with 3 years of relevant experience*
  *Relevant Experience: Computer Operation

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Implement appropriate standards to assist in performing software construction as per specifications.
- Identify software development needs and changes.
- Design algorithms to solve problems and execute test cases to convert them into code.
- Evaluate the various software testing methodology and identify the correct one to deploy.
- Analyze software designs for already built products or services.
- Build data base skills including DBMS, data design for predevelopment process.
- Categorize between UML and Object-Oriented Design.
- Discuss about manual and automated testing of software components.
- Demonstrate application of suitable Unit Test Cases to validate the process of testing.
- Demonstrate effective communication and collaboration with colleagues.
- Apply measures to maintain standards of health and safety at the workplace.

Modules

NOS and Module Details	Theory Duration (In Hours)	Practical Duration (In Hours)	Total Duration (In Hours)
Module 1: Process of Software Development	09:00	36:00	45:00
Module 2: Process of Application Development	20:00	30:00	50:00
Module 3: Concept of Software Testing	25:00	30:00	55:00
Employability Skills (60 Hours)	**24:00**	**36:00**	**60:00**
Module 4: Introduction to Employability Skills	00:30	01:00	01:30
Module 5: Constitutional values - Citizenship	00:30	01:00	01:30
Module 6: Becoming a Professional in the 21st Century	01:00	01:30	02:30
Module 7: Basic English Skills	04:00	06:00	10:00
Module 8: Career Development & Goal Setting	01:00	01:00	02:00
Module 9: Communication Skills	02:00	03:00	05:00
Module 10: Diversity & Inclusion	01:00	01:30	02:30
Module 11: Financial and Legal Literacy	02:00	03:00	05:00
Module 12: Essential Digital Skills	04:00	06:00	10:00
Module 13: Entrepreneurship	03:00	04:00	07:00
Module 14: Customer Service	02:00	03:00	05:00
Module 15: Getting ready for apprenticeship & Jobs.	03:00	05:00	08:00
Total Duration	**78:00**	**132:00**	**210:00**

Course Name:

Assistant Technician – Solar Panel Installation
(NSQF Level-3)

Course Information

Solar Energy Technicians are a judicious blend of mechanical genius, physical stamina and a passion for the planet. They seek to harness solar energy as a sustainable and renewable energy source by installing, maintaining, operating and testing appropriate equipment and energy systems.
We ensure solar technicians are equipped with the know-how and best practices to install solar plants, which provides end customers with an assurance that they will receive a high-quality installation. The tailored certification for Solar Technician training puts you at the forefront of best practices.

Eligibility

➢ 10th Grade Pass OR
➢ 8th Grade Pass + NTC (2 years after 8th) OR
➢ 8th Grade Pass + 2 years relevant experience

Training Outcome

- Training Outcomes At the end of the program, the learner should have acquired the listed knowledge and skills:
- Describe the process of checking site conditions, collect tools and raw materials.
- Demonstrate the process of installing the solar panel.
- Explain the importance of following inclusive practices for all genders and PwD at work.
- Demonstrate various practices to be followed to maintain health and safety at work.

Modules

NOS and Module Details	Theory Duration	Practical Duration	Total Duration
ELE/N5902: Install the solarpanel	**30:00**	**90:00**	**120:00**
Module 1: Process of installing the solar panel	30:00	90:00	120:00
DGT/VSQ/N0103- Employability Skills (90Hours)	**36:00**	**54:00**	**120:00**
Module 2: Employability Skills(90 Hours)	36:00	54:00	120:00
Total Duration	**66:00**	**144:00**	**210:00**

Course Name:

Associate Data Entry Operator (NSQF Level-3)

Course Information

The purpose of the qualification is to help individuals perform different aspects of data entry operation. This Qualification will equip him/her with the appropriate data entry skill set, attention to detail and problem-solving ability required for the role.

The course is responsible for performing Data entry work using a personal Computer and software, entering, Updating, researching, verifying and/or Retrieving data into/from various systems, And ensuring the accuracy and Confidentiality of information recorded.

Eligibility

➤ 12th Grade Pass or
➤ 10th grade pass with 2 years of relevant experience* or
➤ NSQF Level 2 with 3 years of relevant experience*
   *Relevant Experience: Computer Operation

Training Outcome

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Explain data entry services and the policies applicable.
- Inspect the data being entered from multiple sources to check authenticity and removeerrors.
- Categorize and examine the essential steps required to verify, analyse data.
- Examine common errors and plan to mitigate the same.
- Estimate a suitable timeline for completing a data entry process.
- Illustrate proper ways of upskilling data entry process through use of advanced software.
- Demonstrate application of various IT components including browsers and various operatingsystems.
- Illustrate proper ways of maintaining confidentiality of storing security and back up files forfuture use.
- Demonstrate application of various solutions for different types of incidents/servicerequests.
- Demonstrate effective work planning principles using time and resources effectively.
- Describe how to maintain a healthy, safe, and secure environment at workplace.

Modules

NOS and Module Details	Theory Duration(In hours)	Practical Duration (In hours)	Total Duration(In hours)
Module 1: Concept of Data Entry	06:00	15:00	21:00
Module 2: Software Requirement for data entry	06:00	10:00	16:00
Module 3: Process of Date Entry	06:00	20:00	26:00
Module 4: Troubleshooting in data entry process	06:00	20:00	26:00
Module 5: Assisting Data Entry Process	06:00	15:00	21:00
Module 6: Skillsets of Data Entry Services	05:00	10:00	15:00
Module 7: Incident Management in data entry services	05:00	20:00	25:00
Module 08: Introduction to Employability Skills	00:30	01:00	01:30
Module 9: Constitutional values - Citizenship	00:30	01:00	01:30
Module 10: Becoming a Professional in the 21st Century	01:00	01:30	02:30
Module 11: Basic English Skills	04:00	06:00	10:00
Module 12: Career Development & Goal Setting	01:00	01:00	02:00
Module 13: Communication Skills	02:00	03:00	05:00
Module 14: Diversity & Inclusion	01:00	01:30	02:30
Module 15: Financial and Legal Literacy	02:00	03:00	05:00
Module 16: Essential Digital Skills	04:00	06:00	10:00
Module 17: Entrepreneurship	03:00	04:00	07:00
Module 18: Customer Service	02:00	03:00	05:00
Module 19: Getting ready for apprenticeship & Jobs	03:00	05:00	08:00
Total Duration	**64:00**	**146:00**	**210:00**

Course Name:

Assistant Technician – CCTV (NSQF Level-3)

Course Information

This CCTV course provides comprehensive information required for Security Camera Engineer. Most IP CCTV security systems are very similar (IP Cameras and Network Video Recorders) as a part of CCTV training you will learn basics of IP Networks required to work with IP Cameras and NVRs: Ethernet connections, IP addresses, routers and switches. I also explain use of tools useful for IP CCTV installation.

As a part of CCTV training, you will learn basics of IP Networks required working with IP Cameras and NVRs: Ethernet connections, IP addresses, routers and switches. This will also explain use of tools useful for IP CCTV installation.

Eligibility

➢   10th Grade Pass OR
➢   8th Grade Pass + NTC (2 years after 8th) OR
➢   8th Grade Pass + 2 years relevant experience and
➢   18 Years

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills:

- Explain the importance of visiting site and understand the customer requirements.
- Demonstrate the process of installing the CCTV Camera.
- Demonstrate the process of setting up the CCTV surveillance system.
- Explain the importance of following inclusive practices for all genders and PwD at work.
- Demonstrate various practices to be followed to maintain health and safety at work.

Modules

NOS and Module Details	Theory Duration	Practical Duration	Total Duration
Module 1: Process of installing the CCTV Camera	15:00	45:00	60:00
Module 2: Process of settingup the CCTV surveillance system	15:00	45:00	60:00
Module 3: Employability Skills(90 Hours)	36:00	54:00	90:00
Total Duration	**66:00**	**144:00**	**210:00**

Course Name:

Assistant Installation Computing And Peripherals (NSQF Level-3)

Course Information

Assistant in Installation of Computing and Peripherals is expected to Installation Technician provides after sale installation support services to customers, typically, at their premises. The individual at work is responsible for installing newly purchased products, troubleshooting system problems and, configuring peripherals such as printers, scanners and network devices. The job requires the individual to have ability to build interpersonal relationships and critical thinking.

Eligibility

- ➢ 10th Grade Pass OR
- ➢ 8th Grade Pass + NTC (2 years after 8th) OR
- ➢ 8th Grade Pass + 2 years relevant experience and
- ➢ 18 Years

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills:

- Build interpersonal relationships, and have a customer centric approach.
- Work with office package for reporting and documentation – MS- Word, Excel, PowerPoint.
- Attend field calls from client and handle complaints for system troubleshooting and repairs.
- Install and configure the networking, servers and storage systems.
- Interact and coordinate with the supervisor etc.
- Follow safe and healthy work practices.

Modules

NOS and Module Details	Theory Duration	Practical Duration	Total Duration
Module 1: Introduction to the role of Assistant InstallationComputing And Peripherals	20:00	10:00	30:00
Module 2: Engage with customers for IT hardwareservice	30:00	60:00	120:00
Module 3: Install, configure and setup hardware system	40:00	110:00	210:00
Module 4: Soft Skills and WorkEthics	15:00	15:00	30:00
Module 5: Basic Health and Safety Practices	15:00	15:00	30:00
Module 6: Employability Skills (30 Hours)	**30:00**	**00:00**	**30:00**
Total Duration	**150:00**	**210:00**	**450:00**

Course Name:

Assistant Technician – Networking & Storage (NSQF Level-3)

Course Information

This course introduces computer networks and storage, with a special focus on the Internet architecture and protocols. Topics include layered network architectures, addressing, naming, forwarding, routing, communication reliability, the client-server model, and web and email protocols. Besides the theoretical foundations, students acquire practical experience by programming reduced versions of real Internet protocols.

Eligibility

➢ 10th Grade Pass OR
➢ 8th Grade Pass + NTC (2 years after 8th) OR
➢ 8th Grade Pass + 2 years relevant experience

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills:

- Describe the process of engaging with the customers.
- Demonstrate the process of Installing, configuring and setting up the networking and storagesystem.
- Demonstrate the process of carrying out troubleshooting and fixing equipment**.**
- Explain the importance of following inclusive practices for all genders and PwD at work.
- Demonstrate various practices to be followed to maintain health and safety at work.

Modules

NOS and Module Details	Theory Duration	Practical Duration	Total Duration
ELE/N4612: Installing, configuring and setting upthe networking and storage system	**30:00**	**90:00**	**120:00**
Module 1: Process of Installing, configuring andsetting up the networking and storage system	30:00	90:00	120:00
DGT/VSQ/N0103- Employability Skills (90Hours)	**36:00**	**54:00**	**90:00**
Module 2: Employability Skills(90 Hours)	36:00	54:00	90:00
Total Duration	**66:00**	**144:00**	**210:00**

Course Name:

Desktop Publishing Associate(NSQF Level-3)

Course Information

The purpose of the Associate Desktop Publishing is to help individuals perform different aspects of editorial publishing. This Qualification will equip him/her with the appropriate editorial publishing skills, attention to detail and problem-solving ability required for the role. This course focuses on teaching how to evaluate the process of making content ready for publishing through various tools. It trains to Comprehend and work on page designing using various modes and software like PageMaker, Corel, Adobe, In-Design, Illustrator, etc.

Eligibility

➤ 12th Grade Pass or
➤ 10th grade pass with 2 years of relevant experience* or
➤ NSQF Level 2 with 3 years of relevant experience*
   *Relevant Experience: Computer Operation

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Comprehend and work on page designing using various modes and software like PageMaker,Corel, Adobe, In-Design, Illustrator, etc.
- Discuss with stakeholders on storing publications, version control and access issues.
- Organize stacking up of the most up-to-date versions of publications to avoid mismatch.
- Evaluate the process of making content ready for publishing through various tools.
- Modify content into draft publications mitigating formatting and designing errors and reviewthe same before final print.
- Discuss the use of software tools for publishing content.
- List the types of production process/ types including digital and print.
- Evaluate work skills required for upstream and downstream production process.
- Demonstrate effective communication and collaboration with colleagues.
- Apply measures to maintain standards of health and safety at the workplace.
- Use different approaches to effectively manage and share data and information.

Modules

NOS and ModuleDetails	Theory Duration (In Hours)	Practical Duration (In Hours)	Total Duration (In Hours)
SSC/N2703 Publish content. NOS Version No. 2 NSQF Level 3	53:00	97:00	150:00
Module 1: Technical Skills for publishing content	16:00	19:00	35:00
Module 2: Publish Content in standard formats	15:00	27:00	42:00
Module 3: Software Requirement for publishing content	15:00	27:00	42:00
Module 4: Production requirements for publication process	07:00	24:00	31:00
Employability Skills (60 Hours)	24:00	36:00	60:00
Module 5: Introduction to Employability Skills	00:30	01:00	01:30
Module 6: Constitutional values - Citizenship	00:30	01:00	01:30
Module 7: Becoming a Professional in the 21st Century	01:00	01:30	02:30
Module 8: Basic English Skills	04:00	06:00	10:00
Module 9: Career Development & Goal Setting	01:00	01:00	02:00
Module 10: Communication Skills	02:00	03:00	05:00
Module 11: Diversity & Inclusion	01:00	01:30	02:30
Module 12: Financial and Legal Literacy	02:00	03:00	05:00

Module 13: Essential Digital Skills	04:00	06:00	10:00
Module 14: Entrepreneurship	03:00	04:00	07:00
Module 15: Customer Service	02:00	03:00	05:00
Module 16: Getting ready for apprenticeship & Jobs	03:00	05:00	08:00
Total Duration	77:00	133:00	210:00