

Training Programme for Vocational Teachers on Installation Technician Computing and Peripherals (PAC Code 14.35)

The Training Programme for Vocational Teachers on the Job Role "Installation Technician Computing and Peripherals (ELE/Q4609)" is conducted at SCERT, Thiruvananthapuram from 3 to 7 October, 2018. The objectives of training programme weres :

- i. To comprehend the emerging trends and recent developments in the filed of IT
- ii. To develop competencies for deliver of content-cum-skill-training for the job role on Installation Technician Computing and Peripherals.

Fourty One (41) Vocational Trainers from the states of Andhra Pradesh (10) and Kerala (31) teaching teh course on ITCP attended the programme. On the first day the programme was inagurated by Prof. J. Prasad, Director, SCERT, Kerala and the Programme Coordinator Dr. Dipak D. Shudhalwar. Dr. Shaji, from SCERT welcomed the participants. Director, SCERT alos welcomed all the participants from Andhra Pradesh and Kerala to SCERT. In his address, he gave stress on acquiring skills in computer installation through this training programme. He also informed that two days practical training is organised at College of Engineering, Thiruvananthapuram (CET). In this way he declared that the training programme is formally and informally inaguraged.

After the inagural session, the coordinator Dr. Dipak D. Shudhalwar introduce the participants about the PSS Central Institute of Vocational Education (PSSCIVE), NCERT, Bhopal. On enquiring, it was learnt that most of the participants were not aware about PSSCIVE. So the participants were apprised with the roles and function of PSSCIVE. The coordinator discussed the curriculum at length and obtained the feedback from the participants regarding implementation of the course contents. The participants aksed their doughts regarding availability of textbook, equipment for practical hands on and examination pattern for vocational subject as the NSQF courses are introduced in Kerala from this academic year. The SCERT faculty Mr. Renjith Subhash, has responded these



Dr. Shaji welcoming the participants of training



Prof. J. Prasad, Director, SCERT, Kerala addressing the participants



Dr. Dipak Shudhalwar, Programme Coordinator

queries and said that these matters will be resolved in the academic meeting of SCERT. The curriculum was mostly accepted by the Vocational Trainers (VTs). The coordinator also explained the practical aspects are more important in this type of subject and more stress may be given to Practical. He suggested to organise the field visits as per the provision of NSQF. In each field visit the practical demonstration of one unit contents can be covered.

In the second day as per the schedule the technical sessions on “Overview of Operating Systems” was covered by the coordinator. Then the installation of operating system was demonstrated to the participants. The Ubuntu Linux 18.04 was taken up for installation of operating system. Local Resource Person was also invited for demonstration of installation of operating system.



Dr. Dipak Shudhalwar, Programme Coordinator

Visit of Director VHSE

Prof. Farook, Director, VHSE, Kerala also visited the training programme on the second day and addressed the participants. He is a basically faculty in Mechanical Engineering from CET. He is on deputation as a Director, VHSE. His cooperation has helped to arrange two days practical training at CET on 5 and 6 October, 2018. Prof. Farook explained the participants the importance of job role based course under NSQF and that are being introduced in Kerala from this year. He informed that the vocational courses running in vocational higher secondary schools under VHSE at +2 level will also be continued in addition to these job roles under NSQF. On the pilot basis 66 schools has been selected to execute the NSQF job roles, which will be further extended to more schools. In Kerala there are 1100 VHSE courses running in 400 schools having the permanent regular vocational teachers. There is the staff of 3 persons per vocational course – one vocational teacher, one instructor and one Lab Assistant for each course. In this way there are 3300 persons working in vocational education. He assured that these experienced human resource can definitely achieve the success in NSQF job roles in the state.



Prof. Farook, Director, VHSE, Kerala addressing the participants



VTs doing practical hands on in computer assembly & installation

On the query raised by the participants about the examination pattern and equipment, he responded that everything will be sorted out in phase manner as it is first year of introduction of these courses. He informed that NSQF Cell will be established at SCERT, Kerala to sort out these matter. Most of the trainees were in fear of Sector Skill Council (SSC) examination to be held by ESSC to offer the

certificate of certified trainer. But the authorities informed removed their fear of examination, as the knowledge and skills of teachers will be tested and they will acquire additional qualification as SSC Certified trainers. He informed about the gradtion as followed by SSC. The authorities also enquired about the SSC certification passed by the VTs of Andhra Pradesh. The participants from Andhra Pradesh shared their experiences.

In the next day on October 5, 2018, all the participants were taken up to the College of Engineering, Thiruvananthapuram (CET) for practical hands on. The resouce persons from CET has distributed the installation DVD of Windows operating system to all the participants. They were also given the instructions for installation of Windows. Each participants has started to install the Windows in the computer



VTs doing practical hands on under the guidance of Resource Person

systems provided to them. They have been given the hands on training regarding the installation of Windows by creating the new partition in the hard disk drive. Every participant has demonstrated the installation of Windows and they have done installation 2-3 times till they become perfect. Then in the afternoon session the particpnats were given the boot disk of Ubuntu Linux operating system. Each of the participants has demonstrated the installation of Linux operating system. The particpnats have tried to install the software packages as well as they learned the configuration of operating system Windows and Linux.

In the next day on October 6, 2018, the participants were again taken up to the CET for practical hands on of computer hardware installation and assembly as well as disassembly. The resource persons have demonstrated the process of opening the cabinet of computer system. The particpnats have opened the cabinet, removed each and every internal components of the computer system. They have observed and indentified the internal components of computer, their connectivity etc. They have removed each and every internal component of the computer as well as CPU, RAM, Battery from the motherboard. After disassembly of computer system, each part was separated. Then they installed the components on the motherboard, fitted the motherboard inside the cabinet, installed hard disk drive, DVD drive, Power Suppy Unit (PSU) and all other components. The teachers have done the practice of installation and assembly of computer sytem till they become perfect. They acquired the skills in installation of computer system, computer assembly and disassembly. The participants were very happy to recieve the hands on skill on installation of computer and operating system and they expressed thanks to the resource persons and coordinator.

In the last day on October 7, 2018, the participants were given the exposure of Employability Skills. Sh. Vikrant, from Wadhvani Foundation, came to explain how to use the e-contents developed by them. The e-content modules for all the five components of Employability Skills. He demonstrated how to use the e-contents hosted on the PSSCIVE website. He played some of the videos from the website and demonstrated the importance of Employability Skills. Then he has created the login id of each vocational traininer in the e-content modules. By creating the login id of teachers the teachers will be able to access the e-contents. Also they have the rights to create the login id of their students so that the studnets should also be able to access the e-contents. The participants expressed their happyness on accessing the e-contents of Employability Skills. They expressed their gratitudes and thanks to have the access to use Employability Skills.



Group photograph with the participants of the Training Programme in ITCP held at SCERT, Thiruvananthapuram

In the afternoon session, the participants were asked to prepare the action plan to implement the course on ITCP in better way. They were asked to raised their doubts in the implementation of the course. They were facing the problems of textbook, resouce material, tools and equipment for conducting the practicals. Their doubts were resolved by the coordinator and the SCERT authorities and assure the availability of textbook, tools and equipment. This training programme has resolved their doubts regarding teaching the course on ITCP as most of the contensts of class XI were covered in the training. The participants prepared the action plan for implementation of the course. They presented the action plan. As they have created their login ids to acces the e-contents of Employability Skills, they will start to teach it through e-contents. Assurance of availability of textbook in the couple of months is given to them. So the participants expressed that there will not be any problem in implementation of course. So with this training programme, we were able to help the teachers to boost up their moral in implementation of the courseon ITCP.

In the last the validectory session of the training programme was organised. The Director SCERT, Mr. Renjith Subhash, Dr. Shaji from SCERT and Mr. Vikrant from Wadhvani Foundation was present with the coordinator. The programme coordinator gave the brief report of the training to the Director SCERT and expressed thanks to SCERT for hosting the training programme as well as arranging the practical hands on at CET. Few participants from Kerala and Andhra Pradesh were invited to expressed their views about the training. The trainees express their positive views about the training and they took the benefit of practical hands on at CET. Director, SCERT, Kerala has then addressed the participants to improve their skills in the subject. The certificate distribution was carried out with the hands of Director, SCERT, Mr. Vikrant and the coordindator. The programme ends with vote of thanks to the SCERT and participants.



Coordinator giving the brief report to Director SCERT during validectory session



Director SCERT distributing certificates to participants

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5. Three (3) Students of B. Tech. Final Year, Department of Computer Science, College of Engineering, Thiruvananthapuram, Kerala
6. Shri. Abdul Hakkim, SCERT, Thiruvananthapuram, Kerala
7. Dr. Shaji, VT in Electronics, SCERT, Thiruvananthapuram, Kerala
8. Mr. Renjit Subhash, Nodal Officer, NSQF, SCERT, Thiruvananthapuram, Kerala
9. Dr. Dipak D. Shudhalwar, Associate Professor (CSE) and Head, Department of Engineering and Technology, PSSCIVE, NCERT, Bhopal – 462013, M. P., India, 9425018802, dipakds@yahoo.com, dds.ncert@nic.in – Programme Coordinator
10. **Prof. J. Prasad, Director, SCERT, Thiruvananthapuram, Kerala – Honorary Director**

List of Participants

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Training Programme Schedule

| Day | 10:00 to 11:30 | 11:30 to 13:00 | 14:00 to 15:30 | 15:30 to 17:00 |
|------------------|---|---|---|---|
| Day 1 3/10/18 | Registration Inauguration | Overview of NSQF and Revised CSS of VSHSE under NSQF [DDS] | Presentation on Curriculum on Installation Technician Computing Peripherals [DDS] | Basic Electronics, Electrical and Electronics Tools and Equipment [RP] |
| Day 2 4/10/18 | Computer Foundation, Computer Connectivity, Demonstration of Connecting Computer Peripherals [DDS] | Operating System Fundamentals [DDS] | Installation and Configuration of Operating System (OS) – Windows [DDS]&[RP] | Installation and Configuration of Operating System (OS) – Linux [DDS]&[RP] |
| Day 3 5/10/18 | Demonstration of Installation and Configuration of Operating System (OS) – Windows and Linux [DDS] & [RP] | Practical Hands on – Installation and Configuration of Operating System (OS) – Windows [DDS] & [RP] | Practical Hands on – Installation and Configuration of Operating System (OS) – Linux [DDS] & [RP] | Practical problem solving on Installation and Configuration of Operating System (OS) – Linux [DDS] & [RP] |
| Day 4 6/10/18 | Demonstration of Installation of Computer, Assembly and Disassembly process [DDS] & [RP] | Practical Hands on – Installation of Computer, Assembly and Disassembly process [DDS] & [RP] | Practical Hands on – Installation of Computer, Assembly and Disassembly process [DDS] & [RP] | Practical Hands on – Installation of Computer, Assembly and Disassembly process [DDS] & [RP] |
| Day 5 7/10/18 | Demonstration of use of e-Content Modules on Employability Skills [DDS] & [WF] | Creation of login ids of the participants to use the e-Content Modules on Employability Skills [WF] | Practical use of e-Content Modules on Employability Skills by the participants | Valedictory Session – Presentation of report Disbursement of TA, DA and Certificates |