Workshop on Skill Development in Electronics System Design & Manufacturing (ESDM) Sector and Skills Gap Identification

Organized by
Information Technology Department, Government of Jammu & Kashmir

In association with
NIELIT, DeitY, Government of India

Date: 22nd December 2014, Monday Venue: Hotel Fortune Inn Rivera, Gulab Singh Road, Jammu

Proceedings

A Workshop on “Skill Development in Electronics System Design & Manufacturing (ESDM) Sector and Skills Gap Identification” was organized by Information Technology Department, Government of Jammu and Kashmir on 22nd December, 2014 at Hotel Fortune Inn Rivera, Gulab Singh Road, Jammu. The NIELIT was closely associated with the workshop, which was attended by a representative of DeitY, besides the officers from Department of Information Technology, Government of Jammu and Kashmir, NIELIT Headquarter, NIELIT Center Srinagar along with other representatives from State Implementing Agencies in Punjab and Uttar Pradesh, where the ESDM Scheme is being implemented. The representatives from ESSCI, TSSC were also present in the workshop. The Industries from Pune, Bangalore, Delhi and Punjab, which are potential employers, also participated in the workshop.

The Workshop was primarily divided into three parts- the Inaugural session, session for discussion and sharing of views by State Officials, Representatives of Sector Skill Councils and the representatives of industries in Electronics, Telecom.
1. Inaugural Session:

Dignitaries on the dais:

Mr. Parvez Ahmad Malik (IAS) – Secretary to Government, IT Department
Mr. Parvez Khateeb - Director Technical Education
Mr. Mohd. Akbar Wani – Chief Executive Officer, JaKeGA
Mr. A.H.Moon – Director, NIELIT
Mr. N.K. Mohapatra – Chief Executive Officer, ESSCI
Major Gen. P.N.Monga (Retd.) – Regional Head Northern Region, TSSC

1.1 The Inaugural session began with the welcome address by Mr. Mohd Akbar Wani, Chief Executive Officer, JaKeGA. This was followed with an Inaugural Note by Mr. P.A.Malik, IAS Secretary Information Technology Department. Wherein he gave brief introduction about the Scheme. He said that his vision is to get aligned with the National Electronics policy and create a competitive electronics design and manufacturing industry in J&K to meet the country's needs and serve the international market. He also highlighted that Jammu and Kashmir has the highest unemployment rate in north India, around 5.94 lakh youth have registered themselves with the employment department in order to get job. He assured that by implementing the said project of Skill Development in ESDM Sector, Jammu and Kashmir will get rid of unemployment to a great extent. At the end of his speech, he agreed to sign the MoU with NIELIT, ESSCI and TSSC and expressed hope that NIELIT, ESSCI and TSSC will work together to make this scheme a great success in Jammu and Kashmir and will at least ensure 30 to 40% employment.

1.2 This was followed by a presentation by Mr. N.K.Mohapatra, CEO ESSCI, wherein he gave a brief on the work that ESSCI has done in the years of its existence. He shared that NOS (National Occupational Standards) for 14 subsectors have been finalized and 139 Qualification packs under 25
job roles are ready for implementation. ESSCI has identified 17 training partners and are ready for the roll-out of the ESDM Scheme. Mr. N.K.Mohapatra emphasized that after an extensive market survey they have identified that maximum demand is in the IT Hardware and consumer electronics sectors.

1.3 Major Gen. P.N.Monga from TSSC, in his presentation gave an overview of the activities of TSSC. He shared that they have worked actively on the trainings of SC/ST/women in the Telecom sector. TSSC has a well designed portal to map the profile of the trainees. 26 occupational standards have been identified and are being implemented with well laid out plans and close monitoring. TSSC has signed 131 MoUs with Telecom Industry and have 151 training partners, 200 Industry partners and 4 assessing bodies.

1.4 Mr. Parvez Iqbal Khateeb, Director Technical Education, Government of Jammu and Kashmir, gave the presentation showing his vast presence in Jammu and Kashmir and gave the consent to provide his support in using his Institutions (Polytechnic Colleges, ITI's) for the ESDM Scheme. He show-cased the achievements in the Technical Education sector, available infrastructure and the capacity of his department to play any role assigned to the department.

1.5 Mr. A.H.Moon, Director NIELIT, in his presentation apprised every one of the vast network of NIELIT centers and the grid of the affiliated partners across the country. He shared with the illustrious audience the pioneering work done by NIELIT in the field of Computer literacy in the entire State. Those present were made aware of the examination, assessment and certification tasks that various private and government agencies have entrusted NIELIT with. He shared that NIELIT has been involved in training of IT and ESDM sector since long and they have 52 well designed courses in ESDM under 9 verticals. The NIELIT centers have close links with
industry and are fully capable of bringing complete synergy with industry in the courses under ESDM Scheme. As the organization has been involved in examination and certification, therefore, the mechanism of online examination and certification is already in place. NIELIT is working in the direction of being declared as an Institute of National Importance.

2. Session: Electronics Sector and Employability

Panelists:

Mr. N.K.Mohapatra, ESSCI - Moderator
Mr. – K.P.Sharma – Schneider Electric
Mr. Manish – Rooman Technologies
Mr. Kalsi - BSNL
Mr. Shantanu Dasgupta – Whirlpool

2.1. The session focussed on bringing out the diverse nature of the Electronics sector. Panellists opined that ESSC constituted of all the premier trade body representing the Indian Electronic System Design and Manufacturing (ESDM) industry with both domestic and multinational enterprises as members of the trade bodies that constitute the Sector Skill council. The industry reiterated its commitment towards building global awareness for the Indian ESDM industry and supporting its growth through focused initiatives in developing the ecosystem. The primary objective of the discussion was to act as a catalyst for the growth of the ESDM industry in India. The workshops like the one organized were to create an enabling ecosystem that catalyses industry growth and leadership. Foster active collaboration between industry and universities to further expand the available world-class semiconductor talent pool. Challenges would be to get right skilled engineers to support the new devices and at the same time new opportunity for employment. A requirement of high degree of productivity for automobile sector to compete globally was reiterated. A strong need for skilled people in this sector was emphasised. The panellists also called upon industry in this sector to actively participate in the initiative towards skilling
leading to employment. They also reiterated that the approach needs to be systematic and the society needs to approach the industry subsector-wise.

3. Session: Telecom Sector and Employability

Panelists:
- Major Gen. P.N. Monga (Retd.), TSSC - Moderator
- Mr. M.K. Wali - LMES
- Mrs. Meenakshi Vashist - Technology Uncorked LLP
- Mr. Anirudh - MAPS Industries

3.1. Power of telecom sector was emphasized and that telecom and networking has become the backbone for the growth. India has 238 million internet subscribers and internet access from the mobile is more. Areas like Cloud computing, E-learning, E-Health, Global services, Citizen centric services were being made easy by mobile networking. Panel said that the need was to create modules by collaborating with universities and bridging the gap between the industries and the universities by holding the workshop inviting skills and resources from industries. The workshops could focus on areas like: Ultra-modern labs for PCB manufacturing, Practical training in networking etc. The training delivery should be in a manner that the students must acquire the knowledge, skills, competencies, personal changes, awareness with a professional touch.

3.2. The session also focused on identifying the potential in industry with a direct link to skill gap and employability. The emphasis to solve the problem by focusing into the requirements and by modifying academic syllabus based on the industrial need was reiterated. It was emphasized that technology and its potential was not meant to replace but meant to supplement the quality of teaching aids. There were key area with missing tools to skill the manpower. It was called upon the industry to use technology for skilling the people in niche areas with high quality and precision. To bridge the language gap, vernacular language should be as a medium of communication. Power of mobile device and the computing for ordinary man could be further expanded to employability.
Panel opined that mobile was replacing many technologies with passing time. The panel stressed on developing job-based courses in (a) Smart phone trends (b) Software-Hardware inter-phase (c) Features phones and its hardware.

4. Experience Sharing by SIAs, ESSCI, TSSC, NIELIT:

Agenda: Experience sharing and way ahead

Participants:
Mr. Parvez Ahmad Malik IAS – Secretary, IT Department - Chairman
Mr. N.K. Mohapatra, CEO, ESSCI
Gen. Monga, Head Northern Region, TSSC
Mr. A.H. Moon, Director NIELIT

This session was open and kept for the interaction of all the participants present in the workshop. During this session the implementation plan and future actions required for the Scheme was discussed.

Also, the panel cleared the quires raised by the participants. Chairman was of the view that the success of the scheme largely depended on the selection of training partners. This was crucial factor because the training partners are the grass root level for mobilization of the students to enroll under the scheme. Their contacts with industry would determine the placement of students completing training in ESDM.

The involvement of the Industry as faculty and as practical training partner was once again discussed. Chairman was of the opinion that without industry participation the success of the Scheme might be not as bright.

Almost all the participants of the workshop are of the unanimous view, that there should be in place a training mechanism for skilled candidates. Registration for which should not be volunteered but mandatory. It was therefore stressed upon the training partners together that they should prepare a database of the trainees and handed over to the Information Technology Department, so that the placements and job switching etc. can
be monitored together with the quantum of remuneration paid to those trainees, who are employed by the industry.

The non-participation of MTL, to whom the project is allotted by IT department, was viewed seriously, and it was observed that if MTL could not make it possible to attend the workshop for the said scheme, how it will be possible for them to implement the scheme in the state.

The workshop ended with a congratulatory note from the CEO, JaKeGA to all those present for the completion of a successful ESDM workshop.

Secretary to Government
Information Technology Department