

# **Workshops on Skill Development in Welding Technology**

*September 3, 2013 at Kochi ; on 4<sup>th</sup> at Malappuram & on 5<sup>th</sup> at Kannur*

## **REPORT**

General Engineering is one of the sectors having high potential and skill requirement for Micro Small & Medium Enterprises (MSMEs) development in our State. Welding Process is a major function of the fabrication work in General Engineering units. The quality of welding will affect the whole product / component. Presently, most the MSMEs engage welders who are not technically qualified. They are not aware about the technical standards followed in the welding process and the latest technology adopted in the sector. The learning of such standards & technology will improve the skills of the welders.



In order to make aware the various welding skills, Kerala Bureau of Industrial Promotion (K-BIP) organised 3 Nos. ‘Workshops on Skill Development in Welding Technology’ at Ernakulam, Malappuram and Kannur Districts in association with Welding Research Institute, Bharat Heavy Electricals Ltd (BHEL), Tiruchirappalli (Trichy). Dr. G. Buvanashakaran, Additional General Manager, Welding Research Institute, Bharat Heavy Electricals Ltd., Tiruchirappalli handled technical sessions during the workshops.

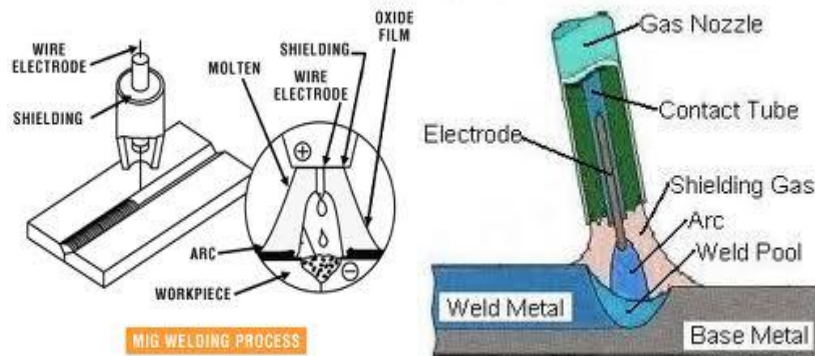
The following topics were covered in each workshop:

### 1. Introduction to Welding

- Welding, classification of welding processes, Industrial application.

### 2. Need for Skill sets required for different Welding process

- Shield Metal Arc Welding (SMAW), Semi Automatic mechanised and robotic welding.
- Importance of skill training in SMAW for different positions of welding and material compositions.



### 3. Steps to be followed to get a weld with assured quality

- Things to be ensured before, during and after welding.
- Procedure Specification; welder Qualification.
- Visual examination and surface NDT & its application to ensure quality.

### 4. Technologies Available for Improving Productivity and Quality

- Manual, semi automatic; mechanized, robotic.
- Local/ Home grown automation for higher productivity.

## **Workshop at Ernakulam :**



The one day Workshops on Skill Development in Welding Technology organised for the beneficiaries of Ernakulam District was held at Kerala Small Scale Industries Association (KSSIA) Hall, Palarivattom, Ernakulam on September 3, 2013 (Tuesday). Shri. K.S. Pradeep Kumar, General Manager, District Industries Centre, Ernakulam inaugurated the workshop. 43 entrepreneurs engaged in General Engineering sector participated in the workshop. K-BIP organised the Workshop in association with Kerala Industrial Engineering Workshops Federation.



## **Workshop at Malappuram :**



The one day Workshops on Skill Development in Welding Technology organised for the beneficiaries of Malappuram District was held at the Common Facility Centre (CFC), Malappuram Metals & Engineering Consortium Pvt. Ltd. (MECON), Manjeri, Malappuram on September 4, 2013 (Wednesday). Shri. T. Abdul Wahab, General Manager, District Industries Centre, Malappuram inaugurated the workshop. 90 entrepreneurs engaged in General Engineering sector participated in the workshop. K-BIP organised the Workshop in association with Malappuram Metals & Engineering Consortium.



## **Workshop at Kannur:**



The one day Workshops on Skill Development in Welding Technology organised for the beneficiaries of Kannur District was held at K.V. Raman Memorial Hall, North Malabar Chamber of Commerce, Caltex Jn., Kannur on September 5, 2013 (Thursday). Shri. Abdul Kareem, President, Cluster Confederation of India – Kerala Chapter inaugurated the workshop. 73 Entrepreneurs engaged in General Engineering sector participated in the workshop. K-BIP organised the Workshop in association with Cluster Confederation of India- Kerala Chapter.



**Conclusion:**

- The participants have shown interest to participate in various skill development programmes being organised by Welding Research Institute (WRI), Bharat Heavy Electricals Ltd. (BHEL), at Tiruchirappalli.
- Participants requested Department of Industries & Commerce, Government of Kerala / K-BIP to support MSME units engaged in General Engineering sector to participate in the programme.
- Those attending the training programmes at WRI, BHEL, Tiruchirappalli (sponsored by Department / K-BIP) will be labelled as Master trainers. These master trainers will provide training to local MSME General Engineering Units located in the State.

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