

Welding Technology – Towards Zero Defect

MIA in association with GIZ –MSME INNO had recently organised a workshop on welding technologies for its member industries. The 3 day workshop on welding included visits to around 10 industries of MIDC Hingna Industrial Area for understanding of problems faced during welding process and a full day classroom session by the expert on advanced welding technology and right approach to handling welding process.

Mr. Vijay Agwan, expert in the field of welding with more than 40 years of sound experience on “Towards Zero Defects in Welding Applications through 4-Ps: Product, Process, Plant & People” elaborated on the common mistakes that go unnoticed and become a practice in due course as there is lack of awareness towards the correct methods or approach for welding process.

The expert along with representatives from GIZ and MIA Hingna team visited select industries including Duraweld Metsys Pvt. Ltd., Ador Fontech Ltd., Bajaj Steel Industries Ltd., Spannkraft Hydrosystems Pvt. Ltd., Diffusion Engineering Ltd., International Combustion Ltd., NuMac, Savita Auto Industries, Minar Hydraulics and few more units from the MIDC Hingna Industrial Area.



(L TO R Dr. Yogita Kasture – GIZ Representative, Mr. Vijay Agwan – Expert Trainer, Capt C. M. Randhir, President – MIA Hingna, Shri. S. M. Patwardhan, E.C. Member – MIA Hingna, & Shri C. G. Shegaonkar, Hon. Secretary – MIA Hingna)

Dr. Agwan gave inputs to the supervisory staff, by simplifying the technological concepts in the shop floor language on the spot, so that the actual doers could grasp the significance of what goes wrong by the in-correct practices, and what is the way out for improvement.

The class room session was organised at MIA Hingna Conference Hall which was well attended by industry owners and their concerned staff members. Mr. Agwan emphasized on properly educating the welders and supervisory staff on handling of various metal and alloys to ensure quality result and to overcome common problems like over welding, spatter and undercut etc.

He explained that the situation regarding GMAW Process (MIG/MAG/CO₂) in every industry is more or less the same due to ignorance on one hand and emphasis only on production at the cost of Quality. Even the SMAW process needs to be corrected at many places. Correct welding practices need to be followed with conviction. The welding technology as adopted and practiced by them needs correction for understanding the engineering behind the equipment & process; and the metallurgical effects in turn they have on the material of construction.

Dr. Yogita Kasture, GIZ representative in Nagpur shared that GIZ (German International Co-operation) is a private agency of Ministry for Economic Development and Co-operation of Federal Govt of Germany. The “MSME INNO” project is jointly implemented in Maharashtra by GIZ and Ministry of MSME as a part of bilateral agreement between the two countries to promote adaption of innovations amongst MSMEs for their business growth and offer new business opportunities. GIZ has entered into an MoU with MIA Hingna and will be supporting various initiatives for capacity building and identifying innovative techniques through research by connecting them with academic institutes in Nagpur.

The MIA Hingna President Capt. C.M. Randhir explained the objective behind conducting this workshop. He stated that most industry members were not aware of basic welding technology and its criticality. He thanked GIZ’s initiative and urged MIA Hingna members to take maximum benefits from such practical training workshops as this will be a continuous engagement with technology experts from various fields to provide best technical and capacity building activities for the MSMEs.