



**CAPITAL
GOODS SKILL
COUNCIL**



Dear Readers,

The year 2020 and the 4th quarter of the FY 2019-20 started on a promising note and the activities of the council cruised along as per plan. By the middle of March 2020, while the quarter, as well as the Financial Year, was coming to an end, the pace of activities was broken by an unprecedented situation created by the spread of COVID -19 and India's resolve to fight back. All citizens played their role of staying locked down in their house thus in a unique way showing solidarity to the cause. After a deliberate pause, the industry bounced back with a resolve to help the community. There are many examples where Capital Goods companies came forward to support the clients, stakeholders and above all the community. Many companies quickly re-deployed their financial, technical and human resources to manufacture ventilators and other medical necessities to fight the virus.

On our part, the Capital Goods Skill Council staff came forward and offered one day's salary each to the central fund as their commitment and contribution to a national emergency like situation.

This edition of the newsletter covers the period upto just prior to the national lockdown. We look forward to your suggestions and contributions in the form of technical articles for the next edition.

"Stay safe! Let's pray all this coronavirus pandemic ends soon."

Mr. I S Gahlaut
CEO, CGSC

INDUSTRY'S CONTRIBUTION

IOT AND INDUSTRY 4.0

IOT and Industry 4.0 are terms frequently used in manufacturing now. What do they mean?

IOT is short for Internet of Things. The internet (a global network of computers that talk to each other using a standard protocol) over the past 30-odd years has only been used by humans to communicate with each other or to get information. This is the IOP – Internet of People. Over the past 3 years, however, Things (devices and machines) have started using the internet. Things like cars, manufacturing machines, sensors, actuators, devices in buildings, etc. E.g., as you are going home, when you are a certain distance away, software on your phone (based on your GPS coordinates) can switch on the air conditioners and coffee making machine in your home, all communication happening over the internet



Industry 4.0 is the bringing together of many technologies that are used in a discrete manner now, like robotics, Artificial Intelligence, sensors, cloud computing, IOT, data capture and analytics, etc. You could think of it like ERP software. Before ERP, there was discrete software for sales, finance, stores, payrolls, HR, sales. They wouldn't talk to each other. ERP just brought them together – they talk to each other and share a common database, improving efficiency hugely and reducing manual work in transferring data from one software to another.

Industry 4.0 in manufacturing is NOT a new technology, just like ERP is not new technology. It is a marrying together of already existing technologies and facilitating communication. One of the things that has enabled Industry 4.0 applications is what are called Cyber-physical systems (CPS), that are sensors + computers + internet that can sense the physical environment, make intelligent decisions at high speed, and take physical actions again based on the decisions. Examples of CPS: Autopilot in aircraft, driverless car, smart grid (an electricity supply network that detects and reacts to local changes in power demand). This is one of the 3 key Industry 4.0 components, along with IOT and Cloud computing.

The term Industry 4.0 originated with a German government project to promote advanced computerization of manufacturing. It is supposed to mean the 4th Industrial revolution, the first three being Mechanization (by steam engines in the 1800s), Mass production (by electricity and the assembly line in the early 1900s) and Automation (by computers in the late 1900s).

Industry 4.0 advantages arise from these key functions, performed by a system comprising things and people: Interoperability: Machines, devices and people communicate with each other via Internet. Information transparency: Accurate information from sensors. Technical assistance: Machines aid humans in decision making, and perform tasks that are unpleasant, too exhausting, or unsafe for humans. Decentralized decisions: Interlinked things make decisions on their own and perform their tasks as independently as possible. Only in exceptional cases they escalate decision making to humans.

Article Courtesy:



Mr. Dasrathi G V.
Director – Application,
LEANworx Technologies Pvt. Ltd.

MOU SIGNING



Mr Rajeev Sharma, Head – Training, JBM Auto Ltd. and Mr I S Gahlaut, CEO, Capital Goods Skill Council signed an MoU in January 2020 to work together in areas of Apprenticeship/ NAPS, Recognition of Prior Learning (RPL), Industry 4.0 and development and validation of the Qualifications.

NATIONAL WELDING COMPETITION

Capital Goods Skill Council was proud to be the “Certification Partner” of the National Women Welding League 2020 organised by C V Raman Group of Institutes at Bhubaneswar, from 6 -8 Mar 2020. 121 women welders representing 19 institutes from 7 states participated in the competition.



TRAINING OF TRAINER WORKSHOP



Training of Trainer (ToT) workshop conducted by Capital Goods Skill Council for 25 Trainers at NTT, Bengaluru in January 2020 and 17 Trainers at L&T, Mumbai in February 2020 respectively for the job roles CNC Operator Turning, Fitter Mechanical Assembly, Fitter Electrical & Electronic Assembly, Manual Metal Arc Welding and Fitter Fabrication.

TRAINING OF TRAINER WORKSHOP



Capital Goods Skill Council conducted Training of Assessor (ToA) workshop for 23 Assessors at Don Bosco Tech Society, New Delhi from 20th Jan to 24th Jan 2020.

WORKSHOP WITH ASSESSMENT BODIES



Capital Goods Skill Council conducted a series of capacity building workshop for Assessors and Subject Matter Experts of all the affiliated Assessment Bodies for strengthening and streamlining of the assessment process

EXHIBITIONS & SEMINARS

KAUSHAL MAHOTSAV, VARANASI



Capital Goods Skill Council participated in Kaushal Mahotsav, a 2-day event organized by National Skill Development Corporation, at Varanasi to spread awareness of skilling requirements in the Manufacturing sector & linking trained candidates to jobs.

MANUFACTURING, MACHINE & TOOLS EXPO 2020



Capital Goods Skill Council participated in MMTEXPO 2020, a 4 day exhibition, at Mumbai, to spread awareness of CGSC's Skilling activities in Manufacturing Sector.

SESSION ORGANIZED BY PUNJAB SKILL DEVELOPMENT MISSION



Mr. Nirbhay Srivastava, Head – Standards, Quality Assurance & Special Projects, Capital Goods Skill Council presenting views during the workshop on the Apprenticeship Promotion Scheme 2019 (NAPS) and Recognition of Prior Learning (RPL) organized by Punjab Skill Development Mission at Ludhiana and Chandigarh, in January and February 2020.

INTERNATIONAL CONGRESS ON WELDING



Ms Shalini Singh, COO, Capital Goods Skill Council briefed the delegates regarding the skilling activities of CGSC , scope of welding training, in Manufacturing Sector during International Congress on Welding, held in February 2020 at Mumbai organised by The Indian Institute of Welding

CGSC AT THE PROCESS PLANT MANUFACTURERS ASSOCIATION OF INDIA



Mr. Nirbhay Srivastava, Head – Standards, Quality Assurance & Special Projects, Capital Goods Skill Council presenting the Apprenticeship Promotion Scheme 2019 (NAPS) and Recognition of Prior Learning (RPL) to the members of the Process Plant Manufacturers Association of India at Hazira(Gujarat) and the Board Members at Mumbai(Maharashtra), in February 2020.

VISIT TO INDIAN INSTITUTE OF TECHNOLOGY, DELHI



Capital Goods Skill Council team visited (Industry Automation and Foundation for Smart Manufacturing, (IAFSM) Lab, at IIT-Delhi, to understand the developments & to explore the avenues to work together for making Capital Goods Sector, Industry 4.0 ready.

ROJGAR MELAS



CGSC organised Job Melas in association with NICS (Noida) and Deen Dayal Hasthkala Sankul (Varanasi) in February 2020. More than 250 candidates registered & 100+ were shortlisted by employers.

SUCCESS STORY



Laxman comes from a humble background. After his father's demise, his mother took the responsibility to support the family by selling vegetables. Due to the financial constraints, he had to drop out of school early.

He attended the career counselling session of Skill & Entrepreneurship Development Institute, he got himself enrolled for Capital Goods Skill Council's Welding Course.

The skill training enhanced his confidence and after the completion of training he got placed with Taikisha Engineering Pvt. Ltd. on a salary of Rs. 12,000 per month and after getting experience of 1 year he joined Kidar India Pvt Ltd as a CO2 welder at salary of Rs. 21,000 per month.

Today, he can financially support his family.

For Further Queries Contact:

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