

Yantrashilp

Capital Goods & Strategic Skill Council

Volume 7





“ On behalf of CGSSC we wish you a very happy and prosperous ‘New Year 2023’. I wish our associations and collaborations grow exponentially in this year, so that we can contribute towards the empowerment of youth of the nation.

”

Ms. Shalini Singh
COO & Acting CEO
Capital Goods & Strategic Skill Council

It gives me immense pleasure to introduce 7th Edition of Capital Goods & Strategic Skill Council newsletter, “Yantrashilp” evincing its contribution made towards the empowerment of the grass root level youth and pre employed workforce, in during the period September to December month. Our task is to play our role efficiently and effectively as Sector Skill Council to ensure that employability skills are recognized and certified appropriately in the competency mapping of Skill and Education.

At CGSSC, we see new recognitions and relationships as opportunities to provide an empowered skill eco-system. We must harvest these opportunities with full commitment, contribution and dedication. The Council through its Industry-led training programs has played an important role in organizing Skilling of Unskilled, Upskilling of Semi-skilled, Re-Skilling and Cross-Skilling programs for the workforce as per the industry needs.

To make skilling a robust plan for the sector, achieve Global Manufacturing Hub we are geared to introduce advanced manufacturing skilling courses including Industry 4.0 Skilling in next 3 years. Such modules will pave the way and give an extra edge to the beneficiary to acquire the latest skills required and become valuable resource for the organization.

We look forward for continued support from our Governing Board members and our partner organizations to achieve our mission statement.

“The key objective of the CGSSC is to create a robust and vibrant skill eco-system and usher Capital Goods Manufacturing and Strategic Manufacturing Industry in ‘Atma Nirbhar Bharat’ & ‘Global Manufacturing Hub’ era.”



CGSSC is mandated for the development of Skilling courses under Advanced Manufacturing Technology & Industry 4.0 Job Roles. In this regard MOU is signed between the Ministry of Heavy Industries & MSDE and CGSSC.

**Industry 4.0:
How it will transform manufacturing?**

In 2020, McKinsey identified 10 industry sectors that could potentially add \$320 billion more in gross value added (GVA) to the Indian economy with proper reforms. These included chemical products and petrochemicals, agriculture and food processing, electronics and semiconductors, capital goods and machine tools, iron ore and steel, and automotive components and vehicles. All these sectors are great candidates for smart manufacturing innovations and stand to benefit extensively from adopting Industry 4.0 principles.



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18th Century

Industry 1.0

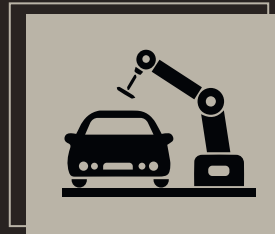
Mechanical Production. Equipment powered by steam and water.



19th Century

Industry 2.0

Mass Production assembly lines requiring labor and electrical energy.



20th Century

Industry 3.0

Automated Production using Electronics and IT.



Today

Industry 4.0

Intelligent Production incorporated with IoT, cloud technology and big data.

Industry 4.0, at its very basic, is about incorporating artificial intelligence (AI), robotics, quantum computing, additive manufacturing and the Internet of Things (IoT) into everyday practices in manufacturing. Across industries, Industry 4.0 and concepts of smart manufacturing are becoming crucial to value creation from the perspective of research and development on the shop floor.

In the Industry 4.0 scheme, various cyber-physical systems operate together and make corrective decisions on their own so as to enhance productivity. A timely alert for human intervention is generated informing the predicted cause and likely maintenance required so as to ensure an uninterrupted machine availability. The logic of distributed processing for regular tasks with a centralized decision making using an analytics framework is extensively utilized here. The smart sensor information emanating from the cyber-physical systems is processed on the cloud servers. In the cloud servers, the AI analytics comprising mathematical models run predictive algorithms to improve productivity and assists in guiding the process of manufacturing. The implementation of Industry 4.0 requires not only a horizontal factory-to-factory integration but a vertical integration to connect the hierarchies of a production line. Overall, the intelligence of the smart factory is achieved with the convergence of technologies of information processing as part of a digital ecosystem.

It is projected that ROI for Industry 4.0 infrastructure would witness breakeven within a 3 – 5 years span leading to improved manufacturing productivity, better quality and reduced down-time.

Samarth Udyog Bharat 4.0 (Smart Advanced Manufacturing and Rapid Transformation Hubs) under the Ministry of Heavy Industries is the India's initiative to push for Industry 4.0 implementation with an aim to propagate technological solutions to Indian manufacturing units by 2025 through steps like awareness programme, training, demo centers etc. The industry, academia and international cooperation in the field of technologies related to Industry 4.0 is the policy formulated by the government. India's National Manufacturing Policy (NMP) has been promulgated which aims at enhancing the share of manufacturing in GDP to 25% and Industry 4.0 is the only way ahead to achieve this task.



MANUFACTURING SECTORS

Automation Equipment
 Cutting Tools
 Process Plant Machinery
 Defence Equipment Manufacturing
 Dies, Moulds and Press Tools
 Fire-Fighting & Safety Equipment
 Foundry & Forging
 Homeland Security
 Heavy Electrical Equipment
 Material Handling Machinery
 Food Processing Machinery
 Plastic Machinery
 Textile Machinery
 Machine Tools
 Heavy & Light Engineering Goods Ship Build & Ship Repair & Marine

CGSSC MEMBERS



RECENT EVENTS

New Office Inauguration:

With an aim to serve the sector in a better manner with a big and diverse team, CGSSC shifted to own office at Karol Bagh.



CGSSC shifted to Independent Office
39, 1st Floor, Samyak Tower, Pusa Road,
New Delhi - 110 005.



Team Lunch - Diwali Celebration.



Launch of CGSSC Handbook.



CGSSC signed up an MOU with Pacific University to provide skill based courses to students under the New Education Policy guidelines.



CGSSC in association with leading Skill Training Institutes conducted series of 'Train the Trainer' workshop for trainers in Welding and CNC Milling, CNC programmer and certified 50 trainers across Karnataka Location.



TOT Assessment of 20 candidates on Welding and CNC Milling at Karnataka German Technical Training Institutes, Kalaburagi, Karnataka in the month of December.

RECENT EVENTS



TOT Assessment of 9 candidates on CNC Programming at NETTUR Technical Training Foundation, Bengaluru, Karnataka in the month of December.



TOT Assessment of 13 candidates on CNC Milling and 16 candidates on welding at Karnataka German Technical Training Institutes, Bangalore in the month of November.



CGSSC participated in Kaushal Mahotsav organized by NSDC in Bundi Rajasthan. Five companies from capital good sector participated and selected 224 candidates.



Participation in Bundi Kaushal Mahotsav: 5th & 6th Jan 2023.



CGSSC Industry Engagement Initiative.



CGSSC participated in Kaushal Mahotsav organized by NSDC in Dhenkanal Orissa.

TESTIMONIALS



Rajendra Nayak

Rajendra Nayak belongs to Patan District, Gujarat. He underwent CNC Operator - Turning course at Skill Development Institute (SDI) Ahmedabad after his ITI when he was not getting the right opportunity in his sector. He got placed in Sigma Surgical Pvt. Ltd. and got offered a starting salary of INR 144000/- per annum.

<https://youtu.be/yihLuxCqEw>

Patel Ajay Parshotambhai

Similarly Mr. Patel Ajay Parshotambhai belongs to Mahesana district in Gujarat. He belongs to a very humble background and joined Skill Development Institute (SDI) Ahmedabad in order to support his family in their financial growth. Within completion of 3 months training in SDI he got placed in Signa Surgical Pvt Ltd within his native place.



https://youtu.be/zHjngVnB_Ws

To know more on CGSCC :

https://youtu.be/myJcKq0S4_o

<https://youtu.be/zLtVhAg9U3o>

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