IT - ITeS SSC
NASSCOM

Building Global Occupational Standards for Design & Engineering in India

Launch of 'Product Design Engineer - Mechanical' Courseware

The Indian IT-BPM industry has built its reputation in the global arena on several differentiators, chief among them being the availability of quality manpower. Organizations across the world recognize the value India brings to every engagement with its vast and readily available pool of IT professionals. Global entities have found it extremely effective to leverage this critical resource as a way to realize competitive edge.

In tandem with an evolving global manufacturing space, the Indian Engineering R&D sub-sector has adopted dynamic ways to respond to a new generation of customer needs across the full spectrum of product life-cycle. Organizations now need to demonstrate increasing adaptability in order to stay ahead of global competition.

The next wave in technological advances has disrupted the ways in which Designers and Engineers are at once empowered and challenged. Product development processes now exhibit increased agility, allowing for personalization and collaboration. Intuitive manufacturing capability enables industries to step into the world of connected services, where their product becomes the basis of meaningful service.

Given this trajectory, it is critical to develop and enable a pool of skilled talent with strong design fundamentals with an exposure to leading technology that surpasses global standards. It is to this end that the IT-ITeS Sector Skills Council NASSCOM (SSC NASSCOM) has been mandated with the objective of facilitating the creation of such a workforce, by building employment related standards for the IT-BPM industry as well as to keep track of changing scenario of talent demand and supply in the industry.

Courseware development is one of several efforts by which SSC NASSCOM aims to develop ready-to-deploy talent for IT-BPM Industry. The courseware (Facilitator Guide and a Student Handbook) set to support training in Product Design Engineer – Mechanical programs. Its development is aimed at empowering students with the required competencies at the entry level within the larger occupation of Product Engineering Design in the Engineering Research & Development (ERD) sub-sector of the industry.

To ensure the creation of an academic course that is both relevant and viable, SSC NASSCOM partnered with key industry stakeholders, namely, ANSYS, Autodesk, Geometric, Imaginarium, JCB, L&T Technology Services, SQS, Tata Technologies and TCS. Their inputs have significantly enhanced the design of the curriculum and courseware, and also addresses the need for faculty support, and achieves this by acquainting trainers with the latest advancements in pedagogy.

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Key benefits to Industry

- Support to Up-skill Existing employees:
  - The course completion enhances the participating employee's effectiveness in their current job role.
  - Since the effort reflects collective industry expertise, the learning experience prepares the employees to be industry ready, expanding their skills to go beyond the current organization.
- Access to a Employable & Certified Talent pool:
  - Organizations will benefit by hiring new employees who are trained on global standards.
  - Access to candidates certified in the Product Design Engineer Mechanical Qualification Pack (QP)/ job role

Key benefits to Academia

- The new courseware can easily be integrated as an elective or add-on module for final year students in colleges & universities.
- The Product Design Mechanical Engineer courseware empowers students to successfully get their certification.
- Students graduate with certification of global standards.