

Skill Times *from* NSN

India's first e-magazine dedicated to skills, education and employability

Issue 6 | July 2022

- Industry-integrated technical training
- India 2030: Potential of the MSME sector in boosting the economic growth
- Skill training opportunities in Aviation and Drone Industries
- Phygital model in skill development
- Careers in Artificial Intelligence (AI)
- Role of Centre Managers in Skill development



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Editorial

Dr. Madhuri Dubey

If COVID-19 has accelerated the pace of technology adoption in skilling and vocational education, are we ready to make strategic investments in technology integration in the design and delivery of the programs? How do we ensure industry participation and collaboration in many aspects of implementing work-integrated education in India? Questions such as these form a part of our inquisitive journey in understanding the practical issues in outcome-based skill development in India.



When it comes to actually implementing the programs at the grassroots level, the role of the training centre manager or head becomes absolutely crucial. The leadership exhibited at this level is what differentiates the performance and outcome. Let's celebrate their achievements and recognize their commitment and efforts.

Here's more on recent events, stories about emerging sectors like Drones and more in this edition.

Thought leadership

Top 3 best practices for industry-integrated technical education and training

Dr. Madhuri Dubey

This article is based on a presentation made by Mr. Anand. B, Vice President, NTTF at the recently held ILO event, "Apprenticeship in India: Country Strategy – Innovation Bootcamp".

Let's start by asking ourselves a few questions. What is the goal of technical education and training; is it empowering students with technical skills and placing them in jobs? Or, does the larger goal also include the holistic development of the individuals so that they are able to perform on the job and at the same time realize their own professional dreams.

If you agree that the second goal is more important than the first and it strives towards achieving tangible outcomes, then, the best practices followed by Nettur Technical Training Foundation (NTTF) are sure to interest you!

NTTF has been pioneering innovative models in skill development and vocational education over the past six decades. Their Diploma-holders are placed in the most lucrative jobs and those who turned into entrepreneurs have created jobs for many. Most achievements of NTTF are attributed to the model and flawless execution in partnership with the industry. Here are a few best practices that define their approach towards contributing the society, in particular the industry sector.

1. Outcome-based curriculum effectively delivered by the instructors and trainers inside the industry premises

Quite unlike a typical scenario where we expect the industry experts to guide the students during their exposure to the real world of work, **NTTF deploys their faculty in the industry for three years. As per the design of the curriculum, the trainers at NTTF closely work with the students in the real industry environment to facilitate well-structured on-the-job training.** This is possible because of the strategic industry-academia partnerships NTTF has built over the years through a robust curricular framework that makes it mandatory for students to spend five days per week in the industry environment and one day in the classroom for the theoretical session.

2. Look beyond placements to support higher education qualifications



Even though the objective of most technical training is to make students employable and prepare them for the first job, we need to consider those students who would be interested in pursuing higher education like B.Tech and B.Voc degree programs. **It's always proven that students from NTTF get placed in suitable jobs after completing any program at NTTF.** Those students need some hand-holding to make a lateral entry into professional colleges.

NTTF supports this aspiration of students by associating with some of the Universities and Engineering institutions encouraging students to pursue any work-integrated learning for academic accomplishment or upskilling as per industry requirements.

“For the industry, by the industry and with the industry – that’s how I would like to sum up our endeavours at NTTF in imparting skills that shape the nation. At NTTF, we have always strived towards making students responsible for their professional growth. We instil a sense of ownership at the place of work through student projects that help us understand key aspects of productivity improvement, workplace safety and resource management.” Anand B, Vice-President, NTTF.

3. Convergence of education, industry exposure and employment

Work-integrated learning programmes from NTTF in the form of LEARN AND EARN scheme rolled out under the NEEM scheme, is a structured skill development programme delivered as an Industry-Academia model. This programme has benefited thousands of students, especially those who come from socially

disadvantaged sections of society. In fact, many students prefer to pursue a Diploma from NTTF rather than spending four years in an engineering college.

However, this is not limited to the quality and market value of the programmes and it goes beyond. It's the emphasis on a comprehensive, well-rounded curriculum that differentiates technical training from conventional education, as it is highly practical oriented. NTTF values holistic development and ensures that the students acquire interpersonal competencies and other skills required to become good

human beings and contribute to society. Today, the narrative around skill development and vocational education is focused on ensuring demand-driven training and being industry-relevant. And, it's a proven fact that without industry participation and ownership, technical education and training will not yield the desired results. In such a scenario, the best practices from NTTF provide compressed wisdom that can be applied to solve many issues in the successful implementation of vocational programmes.

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India 2030: Potential of the MSME sector in boosting the economic growth

Team NSN

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India 2030: Potential of MSME sector in boosting the economic growth

Mr. Manish Kothari Managing Director Rhino Machines	Ms. Anju Bajaj Founder - Director P-n-A Industries	Mr. Sanjiv Tripathy President, MSME - VMentor.ai	Dr. M Srikanth Director (Finance) DDU-GKY Cell - NIRDPR	Dr Madhuri Dubey Founder - NSN

Schemes. Funding. Technology. Growth. Training. Apprenticeship. Mentoring. Incubation

On the occasion of **MSME Day 2022**, National Skills Network (NSN) organised a virtual panel discussion on the topic – **“India 2030: Potential of MSME sector in boosting the economic growth”**. Through this panel discussion, we learned and explored possibilities of growth for the MSMEs, credit access, women entrepreneurship, digital solutions for the MSMEs and some challenges. [Watch the video here](#)

Aviation and Drone sector: Skill training, Emerging job roles, and Opportunities

Divya Prathima

The Aviation sector in India is on the road to bouncing back to pre-COVID levels, after being massively hit by the unprecedented pandemic. The aviation and aerospace sector is currently offering numerous opportunities beyond conventional ones and its sub-sector related to Drones is fast growing and is the new sunrise sector.

The aviation and aerospace domain, especially the drone sector, has huge potential for growth and wide applications in the current times and in the near future. It offers jobs not just to graduates and engineers but also for anyone skilled and with basic 10th class qualification.

To understand and learn more about the scope of expansion, skill requirements, emerging job roles, and opportunities in the drone and aviation sectors, we conversed with **Wing Commander Rachit Bhatnagar, CEO, of the Aerospace and Aviation Sector Skill Council (AASSC)**.

Q: How is the aviation sector bouncing back after being severely affected by the pandemic?

A: The aviation industry was badly hit by the pandemic. With high operation costs, the past two years were testing times for the sector. However, with international flights opening up, they started bouncing back and most businesses are on their growth path again. New airlines like Akasa Air and Jet Airways 2.0 are coming up. Air India has been taken over back by the Tatas and they are planning to bring all the airlines they control under one umbrella. With NMP (National Monetisation Plan) privatizing airports and bringing airports in big cities and two-tier cities like



Wing Cdr Rachit Bhatnagar, CEO,
Aerospace and Aviation Sector
Skill Council (AASSC)

Bangalore, Delhi, and Lucknow, under PPP (public-private partnership) model, the sector is bound to witness huge growth.

In the aerospace sector, according to the defence offset clause, not only the aircraft components should be manufactured in India, but also skilled manpower should be made available within the country. This opens up many opportunities for skilled personnel interested in the sector.

Q: What are some of the emerging job roles in aviation and its sub-sectors? What are its skill requirements?

A: Over the years, we've seen more traction in the airline job roles, airport sub-sector, MRO (Maintenance, Repairs, and Overhauls) sub-sector, the design and development sub-sector, aeroplane manufacturing, etc.

Many jobs in the airline sector, like airline reservation agents and airline customer service executives, are always in demand. Some of the jobs like airline X-ray technicians are multi-skilled; they can be deployed even outside the airports at hospitals, resorts, residential complexes, shopping malls, or any place that requires scanning of baggage for higher security.

[Read more](#)

Recent initiatives, trends and more

Phygital model in Skill Development: Partnerships that make it work



In this conversation with Dr. Madhuri Dubey (Founder, NSN), Mr. Sudhakar Gudipati (Business Unit Head – Vocational Education, TCS iON) and Mr. B. V. Sudharshan (Deputy Managing Director, NTTF) talk about "Phygital model in Skill Development: Partnerships that make it work". [Watch the video here](#)

NTTF in association with **TCS iON** offers

Future ready programmes now accessible anywhere across India through phygital model

[Know More](#)

Apprenticeships for small and medium enterprises in the manufacturing sector



“Apprenticeships create future-ready trained professionals and thereby help us to achieve higher productivity through improved work performance. This eventually helps in nation-building”, says with Mr. Sajeev Kumar S, Business Head, SAHL.ai. To learn more and understand the relevance of apprenticeships in the current scenario, especially in the manufacturing sector, the importance of NAPS, its benefits, etc. we conversed with Mr. Sajeev Kumar S, Business Head, SAHL.ai. [Read more](#)

Centre Managers in skill development: Role, Responsibilities and Challenges

Pranathi Kolikapudi



Tata STRIVE has recently unlocked another milestone in their journey of training and livelihood enablement of youth through skill development. With the successful training of one million youth and positively impacting the livelihoods of their dependents, Tata STRIVE continues to create an equitable future for youth in India.

To know and understand the journey and challenges so far in achieving this milestone, and to learn more about the Centre Managers, we caught up with Mr. Anurag Mishra, Deputy Manager – Head, Aligarh centre, Tata STRIVE. [Read more](#)

Team NSN congratulates Tata STRIVE on reaching the milestone of training 1 million youth since its inception!



5 most commonly asked questions about a career in Artificial Intelligence (AI)

Pratyusha Tripathy



This article is based on inputs from the team at TalentSprint

Are you excited about the rapidly emerging Artificial Intelligence (AI) field? With AI being the talk of the town, do you want to launch a career in Artificial Intelligence (AI) but are unsure where to start? Even if you are not planning to start a career right now, we are sure you are curious to learn more to clear your doubts regarding AI. So, to provide you with in-depth knowledge and to help you make an informed decision, we will address some of the most frequently asked questions about a career in AI in this article. [Read more](#)

Skill development and vocational education in India: An orientation workshop

Pranathi Kolikapudi



The banner features the NSN Catalyse logo on the left and the NSN National Skills Network logo on the right. The main text reads "Online interactive workshop" and "An orientation to skill development and vocational education in India". Below this, it lists "Key takeaways" including skill development in India, initiatives, stakeholders, impact, insights from NEP 2020, and ways to strengthen the skilling ecosystem. The participant fee is listed as ₹499. The date is July 16, 2022, from 10:00 AM to 1:00 PM. A QR code and a "REGISTER NOW!" button are provided. The workshop is facilitated by Dr. Madhuri Dubey, Founder of NSN. The website www.nationalskillsnetwork.in is mentioned at the bottom.

Registrations are now open for the next series of workshop - "Skill development and vocational education in India: An orientation workshop".

Date: 16 July 2022

Time: 10:00 AM to 01:00 PM

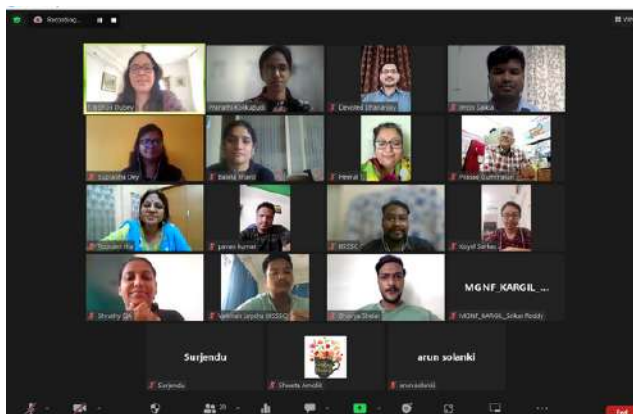
Pay and register for the workshop: <https://www.nationalskillsnetwork.in/workshop/>



The advertisement promotes a program to "Launch your premium Tech Career in AI and Emerging Technologies". It features logos for NSE Talent Sprint and Indian Institute of Technology Hyderabad. Key benefits include "IIT Hyderabad Certification" and "100% Placement Support from TalentSprint". A call to action states "Cohort Starts in April 2022" with an "Apply Now" button. A small image on the right shows a person using a tablet.

Different perspectives on strengthening skill development in India

Team NSN



The sixth batch of the workshop "An orientation to skill development and vocational education in India" under the series NSN Catalyse, was conducted on 18th June 2022. It was attended by skill development and vocational education enthusiasts and practitioners from various organizations across the country.

The participants were enthusiastic and eager to discuss the emerging trends in vocational education in India. We also conducted a few activities during the session to make it more engaging and for the final activity, we asked the participants to share a short write-up with their views on a few topics. [Read More](#)

Videos

Centre Managers in skill development: Role, Responsibilities and Challenges

Mr. Anurag Mishra
Deputy Manager
Head - Tata STRIVE, Aligarh Center



www.nationalskillsnetwork.in

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Apprenticeships for small and medium enterprises in the manufacturing sector

Mr. Sajeev Kumar S
Business Head
SAHI.ai



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