

# B.VOC IN MANUFACTURING – TOOL & DIE



## Program Brief:

Industrial Manufacturing sector has emerged as one of the high growth sectors in India. With the 'Make in India' initiative the manufacturing sector in India has the potential to reach US\$ 1 trillion by 2025 and India is expected to rank amongst the top three growth economies and manufacturing destination of the world by the year 2020. The share of the industrial manufacturing sector to the gross domestic product (GDP) is poised to grow 25 % by 2022, from the current 16 %, and to create 100 million new jobs by 2022 in the manufacturing sector.

B.Voc in Manufacturing (Welding & Fabrication) aims to address the ever-growing need of skilled manpower in the manufacturing sector particularly in the high-end CNC-plasma cutting, TIG Welding, MIG Welding, Spot Welding and Submerged Arc Welding. Trainees shall have access to working with advanced materials, composites, design tools and welding quality testing. Trainees shall be abreast with industrial best practices on industrial occupational health and safety, total quality management and other aspects of plant operations. Adequate emphasis is laid on holistic 360 degree personality development through communication skills, soft skills, yoga, grooming and mentoring.

## Program Model and training methodology:

- The curriculum are aligned to Qualification Packs (QPs) / National Occupational Standards (NOSs) of selected job role(s) of Capital Goods Sector Council.
- The program emphasise more on "learning by doing" with 70% weightage is given on hands on training during classrooms training and "Earn -while-Learn" stipendiary On the Job Training (SOJT) at partner industries.
- Trainees shall spend 6-8 months in a year with partner industries under the contractual employment or apprentice models like National Apprenticeship Promotion Scheme (NAPS)/ National Employment Enhancement Mission (NEEM) programs launched by Government of India.
- Trainees shall also undergo extensive training on 360 degree personality development through communication skills, soft skills, yoga, grooming and mentoring.
- Trainees shall have access to the online cloud hosted Seacom Skill University learning management system (LMS) containing all recorded lectures, notes and reference resources. Trainees can take up online internal assessments and submit internal assignments for evaluation.

## Flexible learning plan:

- The University Grants Commission (UGC) had launched the B.Voc scheme on 27 February, 2014 for skills development based higher education as part of college/university education, leading to Bachelor of Vocation (B.Voc) degree with multiple entry and exit points. B.Voc. Program has been promulgated by the UGC as per National Skill Qualification Framework (NSQF) of Ministry of Skill Development emphasizing on skill based education in consultation with National Skills Development Corporation (NSDC).
- Trainees successfully completing 6 months program (Semester-I) shall be awarded with Certificate.
- Trainees successfully completing 1 year program (Semester-I & II) shall be awarded with Diploma .
- Trainees successfully completing 2 years program (Semester-I , II,III,IV) shall be awarded with Advanced Diploma .
- Trainees successfully completing 2 years program (Semester-I , II,III,IV) shall be awarded with B.Voc Degree
- Trainees can have career progression through M.Voc and Doctoral programs in Vocational Skills.



## Program Highlights :

- Dual education mode with Focus on acquiring Skills and Industry orientation
- 6-8 months/year of OJT at partner industries
- Earn -while-Learn
- Excellence employment opportunity and Career Enhancement
- 100% guaranteed Employment /Self Employment/ Apprenticeship
- Online learning management system
- Flexible Entry-Exit
- Skill Partner : Capital Goods Sector Council

## Eligibility Criteria:

- 10+2 or
- 10th plus (2 or 3 years) Diploma or
- 10th + ITI (minimum 2 years) with 2 subjects(1 Language & 1 Academic) passed from any recognised board
- Or any other equivalent course

## Program Structure :

SEM	Subject/QP
SEM-I (30 Credits)	English Language , Comprehension and behavioural skills
	Environmental Science
	Fundamentals of Automotive manufacturing processes and systems
	Conventional Turning Operations(CSC/ Q 0110)
	Conventional Milling Operations (CSC/ Q 0108)
SEM-II (30 Credits)	Industrial Internship/OJT Fitter Mechanical Assembly operations (CSC/ Q 0304)
	Industrial Internship/OJT- Conventional Turning & Milling operations
	Industrial Internship/OJT- CNC Turning -Setting and operations (CSC/ Q 0120)
SEM-III (30 Credits)	Industrial Internship/OJT- Industrial Occupational Health and Safety, Total Quality Management ,Grooming and Personality Development
	CNC - Vertical Machining Centre Setting and operations (CSC/ Q 0123)
	CNC programming (CSC/ Q 0401)
	PC Essentials, MS Office and Soft Skills
SEM-IV (30 Credits)	Product design using CAD/CAM Software
	Industrial Internship/OJT -Grinder Hand tools Handheld Power Tools (CSC/ Q 0302)
	Industrial Internship/OJT-Vertical Machining Centre Setting , operation and CNC Programming
SEM-V (30 Credits)	Industrial Internship/OJT-CNC Setting , operations and CNC Programming
	Industrial Internship/OJT-Inventory Management and Supply chain Management
	Service Engineering- CNC Installation and commissioning (CSC/ Q 0502)
SEM-VI (30 Credits)	Tool and Die Making (CSC/ Q 0306)
	3D Printing
	Industrial Internship/OJT -Grinder Hand tools Handheld Power Tools (CSC/ Q 0302)
SEM-VI (30 Credits)	Industrial Internship/OJT -Tool & Die Making
	Industrial Internship/OJT -CNC Setting and operations- Electro Discharge Machine(Spark Erosion)
	Industrial Internship/OJT -Human Resources Management, roduction planning and control

## Placement opportunities:

Distil Reinforcing Skills has established excellent industry collaborations with over 50 leading Indian and multinational manufacturing organisations in India and offers 100% assured employment /self employment/ apprenticeship with Rs.7000-15000 monthly stipend/emoluments.

