

# BVOC IN CHEMICAL & PHARMACEUTICALS MANUFACTURING



## Program Brief:

India is the largest provider of generic drugs globally. Indian pharmaceutical sector industry supplies over 50 per cent of global demand for various vaccines, 40 per cent of generic demand in the US and 25 per cent of all medicine in UK. India's chemical and pharmaceutical industry is poised to expand at a CAGR of 22.4 per cent over 2015–20 to reach US\$ 55 billion. India's pharmaceutical exports stood at US\$ 17.27 billion in FY18 and have reached US\$ 10.80 billion in FY19 and to create 10 million new jobs by 2022 in the manufacturing sector.

BVOC in Chemical & Pharmaceuticals Manufacturing aims to address the ever-growing need of skilled manpower in the Chemical & Pharmaceuticals Manufacturing sector. Trainees shall have access to working with world class chemical and pharmaceutical companies and acquire hands on expertise in working with the production processes of solvents, reagents/catalysts, KSMs/intermediates, other building blocks for APIs/advanced intermediates, pharmaceutical formulations, OTC, generic, super generic and proprietary drugs.

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 Life Sciences Sector Skill Development 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 BVOC 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 BVOC Degree
- Trainees can have career progression through MVOC 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 : Life Sciences Sector Skill Development 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
	Environment, Health and Safety Manager (LFS/Q0214)
	Analysis of Industrial Chemicals
	Mechanical and machine operations (LFS/Q0213)
	Production/Machine Operations (LFS/Q0207)
	Industrial Internship/OJT-Manufacturing processes (LFS/Q0216)
SEM-II (30 Credits)	Industrial Internship/OJT-Manufacturing - Process and Plant Operations
	Industrial Internship/OJT-Manufacturing - Industrial & Chemical Safety
SEM-III (30 Credits)	Advanced Communication skills and soft skills
	MS Office and MIS (LFS/Q0510)
	Production/ Manufacturing Chemistry (LFS/Q1201)
	Industrial Internship/OJT- Lab Technology (LFS/Q0509)
SEM-IV (30 Credits)	Industrial Internship/OJT-Production /Manufacturing Chemistry
	Industrial Internship/OJT-Inventory Management, Supply chain Management
	Industrial Internship/OJT- Manual and Machine Packing (LFS/Q0205)
SEM-V (30 Credits)	Supervising Production Process (LFS/Q0203)
	Quality Assurance & Equipment Validation (LFS/Q0312)
	Industrial Internship/OJT-Quality Assurance Chemist – Process Validation (LFS/Q0303)
SEM-VI (30 Credits)	Industrial Internship/OJT - Quality Assurance
	Industrial Internship/OJT-Quality Control Chemist (LFS/Q1301)
	Industrial Internship/OJT-Human Resources Management, Production planning and control

## Placement opportunities:

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

