



SKILLBEE

SOLUTION

POWERED BY

**COMPANY CONNECT
CONSULTANCY**



**DEVOPS
PROFESSIONAL
CERTIFICATION
COURSE**

**3 MONTH WEEKEND CLASSES ADVANCE
PROGRAMME**



<https://skillbee.co.in/>



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- 01** COMPANY OVERVIEW
- 02** MODULES FOR DEVOPS
- 03** CERTIFICATION COURSES WE OFFER
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COMPANY OVERVIEW

01



VISION



SkillBee Solution, our vision is to empower individuals and organizations through high-quality training and certification programs, enabling them to acquire the knowledge, skills, and credentials necessary for personal and professional success in the rapidly evolving world. We strive to be a leading institute that fosters lifelong learning, innovation, and excellence, shaping the future workforce and contributing to societal progress.

COMPANY OVERVIEW



ABOUT US



SkillBee Solution Powered By Company Connec Consultancy, ISO 9001: 2015 certified company (certificate number: IMC-CTCY-22-0513477), registered under the Registration Act, 1958 with Government of India Registration Number C/1765843 and affiliated with Life Sciences Sector Skills Council (SSC) -presents unique, friendly and interactive platform to get rid of all your GMP related glitches.



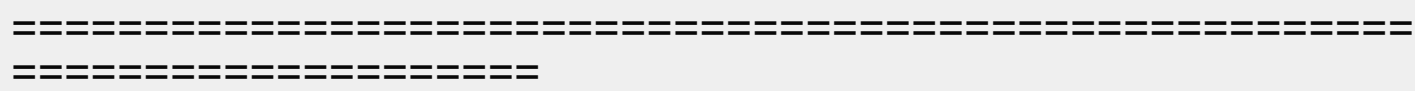
MODULES FOR DEVOPS

02



Common Positions in AWS, Azure & DevOps

- Cloud Engineer (AWS/Azure)
- DevOps Engineer
- Cloud Solutions Architect
- Site Reliability Engineer (SRE)
- Infrastructure Engineer (IaC Specialist)
- Platform Engineer
- Cloud Security Engineer
- Automation Engineer
- Cloud Operations Engineer
- DevOps/Cloud Trainer & Consultant

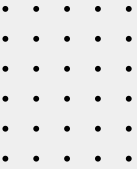


AWS CLOUD:

> ELASTIC COMPUTE CLOUD (EC2)

EC2 Fundamentals

ZONES & REGION



MODULES FOR DEVOPS

IP ADDRESS

STATIC IP DYNAMIC IP STATIC IP DYNAMIC IP

Launching & Connecting to Instances

Storage & EBS

Networking & Security

AMI Management

Auto Scaling & Load Balancing

Monitoring & Troubleshooting

Cost Optimization

> VIRTUAL PRIVATE CLOUD (VPC):

VPC Fundamentals — What is a VPC, CIDR blocks, default vs custom VPC, regions & AZs

Subnets & Route Tables — Public vs private subnets, route table associations, local routes

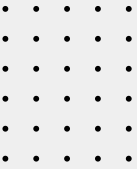
Internet Gateway & NAT — Internet Gateway (IGW) NAT Gateway

Security Groups & Network ACLs — Stateful vs stateless, inbound/outbound rules, rule evaluation order

VPC Peering Peering connections.

VPN & Direct Connect — Site-to-Site VPN AWS Direct Connect

> SIMPLE STORAGE SERVICE (S3)



MODULES FOR DEVOPS

What is object

uploading object

CRR AND SRR

WEBSITE HOSTING

BUCKET VERSIONS

> ELASTIC BLOCK STORAGE (EBS)

Persistent Storage for EC2

Snapshots & Backup

File Systems & Containers

> IDENTITY AND ACCESS MANAGEMENT (IAM)

User and Group Management

Role-Based Access Control

Fine-Grained Permissions

Centralized Security

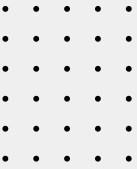
> Multi-Factor Authentication (MFA)

Managed Database Hosting

Automated Backups & Recovery

High Availability & Failover

Monitoring & Performance



MODULES FOR DEVOPS

> ELASTIC LOAD BALANCER (ELB)

- Traffic Distribution
- High Availability

Scalability

Health Monitoring

- Multi-AZ Support
- Application Flexibility
- Application Load Balancer (ALB)
- Network Load Balancer (NLB)

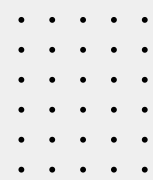
Gateway Load Balancer (GLB)

> AUTO SCALING GROUP (ASG)

- High Availability
- Cost Optimization
- Load Balancer Integration
- Health Monitoring

> Amazon Elastic File System (EFS)

- Shared Access:
- Fully Managed
- Elastic Scaling:



MODULES FOR DEVOPS

> ELASTIC CONTAINER REGISTRY (ECR)

- Integration with AWS Services
- Private & Public Repositories
- Security:
- Workflow
- Build:
- Push:
- Store:
- Pull:
- Run:

Amazon Simple Notification Service (SNS)

- Create a Topic:
- Publish Messages:
- Subscribe Endpoints:
- Deliver Messages:

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AZURE CLOUD:

ZONES & REGION

IP ADDRESS

STATIC IP DYNAMIC IP

WHY STATIC IP?

AVAILABILITY ZONE.

LAB ON AVAILABILITY ZONE {Z1 Z2 Z3} 6.DEDICATED HOST

SPOT VM



MODULES FOR DEVOPS

LAB ON SPOT VM

SCALE SETS

ON SCALE SETLAB

AZURE WEB APPS

LAB ON AZURE WEB APPS

ABOUT CONTAINER

LAB ON CONTAINER INSTANCES

ABOUT AKS LAB ON AKS

VIRTUAL N/W

LAB ON V/N

SECURITY GROUP

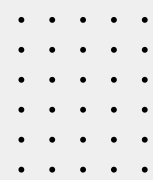
V.NET PEERING LAB ON PEERING

ABOUT LOADBALANCER LAB ON LB

STORAGE ACCOUNTS

BLOB,AZURE FILES,TABLE STORAGE

LIFE CYCLE OF STORAGE ACCOUNTS



MODULES FOR DEVOPS

HOT,COOL(30DAYS),COLD(90DAYS),ARCHIVE

HIGH AVAILABILITY

SCALABILITY

ELASICITY

CLOUD SERVICE MODELS IAAS PASS SAAS

CLOUD MODEL TYPES

PUBLIC CLOUD PRIVATE CLOUD HYBRID CLOUD 26
AZURE TRAFIC MANAGER

LAB ON TRAFIC MANAGER

AZURE CONTENT DELIVERY NETWORK LAB ON
CDN/FRONT DOOR

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DevOps:

OS: LINUX

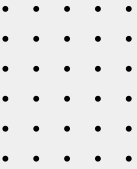
Linux Introduction

Flavours of Linux

Linux History

Linux Advantages

System Information



MODULES FOR DEVOPS

Hardware Information

File Commands

VIM Editor

Users & Groups

File Permissions

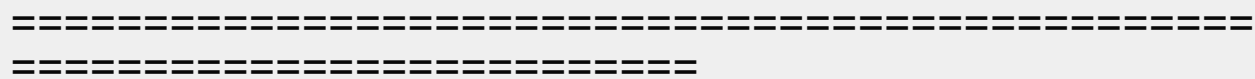
SED Filters

GREP Filters

Package Installation

Some additional commands

Assignment



SCM TOOLS - GIT:

WHAT IS VCS

VCS HISTORY

SCCM

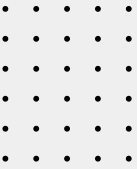
REVISION CONTROL SYSTEM

SUBVERSION

CONCURRENT VERSIONS SYSTEM

WHY GIT

GIT STAGES



MODULES FOR DEVOPS

WORKING DIRECTORY

STAGING AREA

REPOSITORY (LOCAL, CENTRAL, REMOTE)

GIT INSTALLATION

GIT LIFECYCLE

GIT LOGS

GIT PUSH

GIT PULL

GIT CLONING

GIT BRANCH

GIT MERGE

GIT STASH

GIT CHERRY PICK

GIT REVERT

GIT MERGE

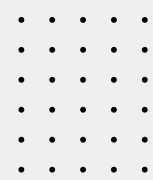
MERGE CONFLICTS

Assignment

GITHUB:

GIT REPOS (PRIVATE & PUBLIC)

INTEGRATING REPOS



MODULES FOR DEVOPS

FORKING

GITHUB FILEADD

TOKENS

COMPARE & PULL REQUEST

RENAMING REPOS

DANGER ZONE OPTIONS

MAKING PUBLIC REPO AS PRIVATE

OWNERSHIP TRANSFER

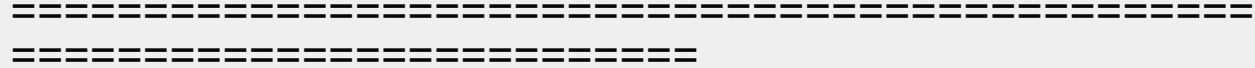
ARCHIVING REPOS

DELETING REPOS

ACCESSING THE PRIVATE REPOS

ADVANTAGES & DISADVANTAGES

INTERVIEW QUESTIONS



BUILD TOOLS - MAVEN

WHAT IS BUILD

WHY MAVEN

MAVEN LIFECYCLE

MAVEN COMPILE

MAVEN TEST



MODULES FOR DEVOPS

MAVEN PACKAGE

MAVEN INSTALL

MAVEN CLEAN PACKAGE

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INTEGRATION TOOL - JENKINS:

INTRODUCTION

WORKFLOW

CONTINUOUS INTEGRATION

CONTINUOUS DELIVERY

CONTINUOUS DEPLOYMENT

JENKINS SETUP

JENKINS SETUP REQUIRMENTS

JAVA INSTALLATION

GIT INTEGRATION

MAVEN INTEGRATION

JOBS TYPES IN JENKINS

FREE STYLE JOB

PIPELINE

MAVEN JOB, TASK

PARAMETER BUILDING



MODULES FOR DEVOPS

CHOICE PARAMETER

FILE PARAMETER

STRING PARAMETER

SCHEDULE PROJECT

CRON JOBS

POLL SCM

WEBHOOKS

LINKED PROJECTS

UP STREAM

DOWN STREAM

BUILD PIPELINE VIEW

MASTER – SLAVE ARCHITECTURE

MASTER – SLAVE SETUP

DISABLING JOBS

RENAMING JOBS

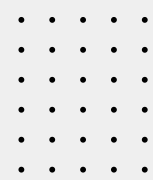
SHELL EXECUTE

PIPELINES

SCRIPTED PIPELINES

DECLARATIVE PIPELINES

PIPELINE STAGES



MODULES FOR DEVOPS

PIPELINE SYNTAX

HELLO WORLD PIPELINE

STAGED PIPELINE

MULTI-STAGED PIPELINE

PIPELINE AS A CODE

MULTIPLE COMMANDS ON PIPELINE

BUILD HISTORY

CRON SYNTAX GENERATOR

AGENT SETUP

USER MANAGEMENT

ADDING USERS

ASSIGNING ROLES

MANAGING ROLES

BLUE OCEAN INTRODUCTION

ADVANTAGES

JENKINS ALTERNATIVES

INTERVIEW QUESTION

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CONTAINERIZATION TOOL - DOCKER :

MICROSERVICES INTRODUCTION



MODULES FOR DEVOPS

DIFFERENCE BETWEEN MONLITHIC & MICROSERVICES

MICRO SERVICES ADVANTAGES

MICRO SERVICES LIMITATIONS

VIRTUALIZATION INTRO

DOCKER VS VMS VS SERVERS

BEFORE DOCKER VS AFTER DOCKER

DOCKER INTRODUCTION

UNDERSTANDING DOCKER

DOCKER ARCHITECTURE

DOCKER CLIENT

DOCKER SERVER

DOCKER DAEMON

DOCKER OBJECTS

DOCKER BASIC COMMANDS

STOP VS KILL

RUN VS CMD VS ENTRYPOINT

ADD VS COPY

RUN VS PULL

DOCKER EXEC

CONTAINER LIMITS

DOCKER IMAGES



MODULES FOR DEVOPS

IMAGE CREATION FOR NODE.JS APPLICATION

IMAGE CREATION FOR PYTHON APPLICATION

IMAGE CREATION FOR JAVA APPLICATION

IMAGE CREATION FOR HTML, JAVA, REACT APPLICATION

IMAGE CREATION FOR DATA_BASES

DOCKER CONTAINERS

DOCKER SWARM

DOCKER SWARM ARCHITECTURE

DOCKER SWARM COMPONENTS

DOCKER SWARM MANAGER

DOCKER SWARM WORKER

DOCKER VOLUMES

WORKING WITH CONTAINERS

BUILD IMAGE FROM CONTAINER

CREATING CUSTOM IMAGES

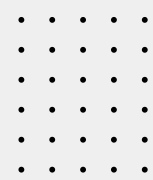
WAYS OF CONTAINER CREATION

DOCKER FILE

DOCKER FILE COMPONENTS

DOCKER FILE CREATION

DOCKER SWARM SERVICE



MODULES FOR DEVOPS

DOCKER COMPOSE

DOCKER COMPOSE ADVANTAGES

DOCKER COMPOSE INSTALLATION

DOCKER COMPOSE FILE

DOCKER COMPOSE FILE IN JSON

DOCKER COMPOSE FILE IN YAML

DOCKER COMPOSE SINGLE SERVICE

DOCKER COMPOSE MULTI SERVICES

DOCKER COMPOSE FILE COMMANDS

DOCKER COMPOSE SCALE

DOCKER STACK

DOCKER NETWORKS

INTERVIEW QUESTIONS:

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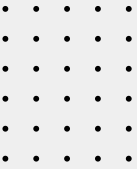
KUBERNETES

CONTAINER ORCHESTRATION

KUBERNETES INTRODUCTION

ARCHITECTURE

MASTER COMPONENTS



MODULES FOR DEVOPS

NODE COMPONENTS

WORKING WITH K8s

ROLE OF MASTER

COMPONENTS OF CONTROL PLANE

KUBE-API SERVER

ETDC

FEATURES

KUBE-SCHEDULER

CONTROL MANAGER

NODE COMPONENTS

KUBELET

CONTAINER ENGINE

KUBE-PROXY

POD

MINIKUBE INTRO

SINGLE NODE CLUSTER

POD

REPLICASET

DRAWBACK OF REPLICA SET



MODULES FOR DEVOPS

DEPLOYMENTS:

Replica Management

- Rolling Updates

- Rollback:

- Self-Healing

- Scaling

Horizontal Pod Autoscaler (HPA)

NAMESPACES

DAEMONSET:

Node Coverage

Automatic Updates

Self-Healing

LABELS & SELECTORS

SCALING PODS

KOPS

KOPS ADATNAGES

KOPS INSTALLATION

KUBECTL INSTALLATION

CLUSTER CREATION USING KOPS

CLUSTER SCALING

SERVICE IN KUBERNETES

TYPES OF SERVICES

CLUSTER IP

NODE PORT

LOAD BALANCER



MODULES FOR DEVOPS

NAMESPACES

STATEFULL APPLICATION

STATELESS APPLICATION

STATEFULL VA STATLESS APPLICATION

WORKING WITH STATEFUL APPLICATIONS

WORKING WITH STATELESS APPLICATIONS

Resource Quotas

INGRESS:
ingress Controller

- Load Balancing:

Path-Based Routing

Host-Based Routing

ARGO CD:

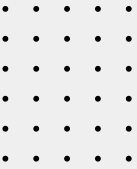
Define Application

Register Repo in Argo CD

- Deploy Application:

- Sync & Monitor

Rollback:



MODULES FOR DEVOPS

HELM CHATS:

CHATS

RELEASES

REPOSITORY

POD EFFNITY

Pod Affinity

Pod Anti-Affinity

NODE SELECTOR:

Node Labels

Pod Scheduling

Hard Constraint:

LIVENESS PROBE:

PURPOSE:

- Restart Policy:

- Probe Types:

- HTTP Probe:

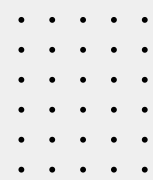
- TCP Probe

NODE AFFINITY:

- Affinity Types

RequiredDuringSchedulingIgnoredDuringExecution

PreferredDuringSchedulingIgnoredDuringExecution



MODULES FOR DEVOPS

NODE - Anti-Affinity

RBAC (Role-Based Access Control)

- Role
- ClusterRole
- RoleBinding
- ClusterRoleBinding

INTERVIEW QUESTIONS

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TERRAFORM:

INTRODUCTION

HISTORY

ADVANTAGES & DIS ADVANTAGES

TERRAFORM SETUP & INSTALLATION

TERRAFROM INIT

TERRAFORM PLAN

TERRAFORM APPLY

TERRAFORM DESTROY

WHAT IS TERRAFORM

WHY TERRAFORM



MODULES FOR DEVOPS

TERRAFORM WORKFLOW

TERRAFORM IMPORTANT POINTS

TERRAFORM AZURE AD AUTHORIZATION

CREATEING A RESOURCE GROUP

CREATEING STORAGE ACCOUNTS

UPLOADING A BLOB

CREATEING VIRTUAL NETWORK

CREATEING SUBNET

CREATEING NETWORK INTERFACE

CREATEING A VM

CREATEING LOADBALANCER

TERRAFORM WORK SPACE

TERRAFORM MODULES

LOCALS

TERRAFORM REFRESH

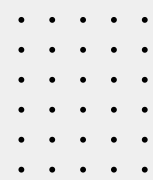
TERRAFORM ALIAS AND PROVIDERS

TERRAFORM IMPORT

TERRAFORM STATE FILE

TERRAFORM MODULE LIFECYCLES

PREVENT_DESTORY



MODULES FOR DEVOPS

IGNORE_CHANGES

CREATE_BEFORE_DESTROY

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Security Scanning Tools: Trivy and Owasp

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Artifactory Storage: Nexus

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MONITORING : PROMETHEUS & GRAFANA & ELK & Datadog & Kubernetes + Kube-state-metrics

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CONFIGURATION MANAGEMENT TOOL - ANSIBLE

ANSIBLE INTRODUCTION

ANSIBLE USECASES

ANSIBLE HISTORY

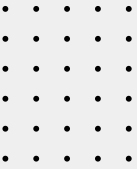
ANSIBLE ARCHITECTURE

AD-HOC COMMANDS

WORKING WITH ADHOC

ANSIBLE MODULES INTRODUCTION

WORKING WITH ANSIBLE MODULES



MODULES FOR DEVOPS

ANSIBLE PLAYBOOKS

YAML INTRODUCTION

YAML INDENTATION

COMMENTING SECTIONS

ANSIBLE VARIABLES

ANSIBLE HANDLERS

ANSIBLE LOOPS

ANSIBLE CONDITIONS

ANSIBLE VAULT

ANSIBLE ROLES

ANSIBLE TAGS

ANSIBLE PIP

ANSIBLE USERINFO

ANSIBLE RAW MODULE

ANSIBLE COMMAND MODULE

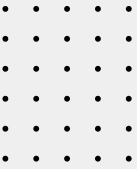
ANSIBLE COPY MODULE

ANSIBLE SHELL

CREATING LOCAL RESOURCES

STATIC WEBSITE USING PLAYBOOK

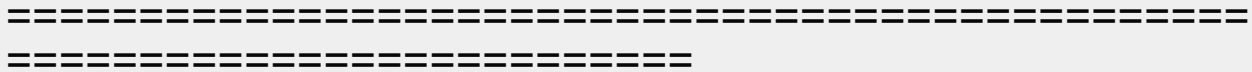
ADVANTAGES & DISADVANTAGES



MODULES FOR DEVOPS

INTERVIEW QUESTIONS

INTERVIEW QUESTIONS



AI Tools for DevOps:

- GitHub Copilot
Harness - CICD
- Dynatrace
 - Uses AI for monitoring, anomaly detection, and root cause analysis in cloud-native apps.
- PagerDuty (with AI Ops)
 - AI-enhanced incident response that reduces alert noise and prioritizes critical issues.

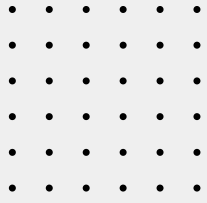
CERTIFICATION COURSES WE OFFER

03

- Computerized System Validation
- SAP S4 HANA
- Basic Laboratory Information Management Systems (LIMS)
- Advance Administrative Laboratory Information Management Systems (LIMS)
- Integrated Industrial training and certification in Pharmacovigilance, Clinical research, Clinical data management systems and Medical Writing
- Pharmacovigilance + Clinical Research Professional Certification
- Clinical data management + Clinical Research Professional Certification
- Medical Writing + Clinical Research Professionals Certification
- Pharmaceutical Regulatory Affairs Certification
- Pharmaceutical Quality Assurance professional training certification
- Pharmaceutical Validation Professional training
- Pharmaceuticals GMP Professionals Certification
- Pharmaceutical Engineering Professionals Certification
- Project Management Programme (PMP)

ADVISORY FACULTY FROM INDUSTRY

Apart from regular faculty members, eminent and dynamic industrial professionals having rich industrial experience of up to 20-25 years have got associated with SkillBee Solution in regular, part-time, distance cum e-learning and Continuing Education Program (CEP). The industrial professionals who have joined SkillBee Solution in this initiative have worked in reputed pharmaceutical companies like Ranbaxy Laboratories Ltd, Cadila Pharma Ltd, Dr.Reddy's Laboratories, Quintiles, IPCA, Cipla etc. in the areas of GMP, GLP, Clinical Research, QA/QC, IPR, Regulatory Affairs, Drug Discovery, Public Health, Medical Coding etc. The continuing education training program has been launched with an initiative to provide training to work force in the industry on specific topics in short time period and to quick fix the issues with possible solutions by having an interface with senior industrial professionals.



05

OTHER DETAILS REGARDING THE COURSE

The Course we offer in is available on the below link

<https://skillbee.co.in/>

Eligibility

This course is specially designed for Professionals and Digital Transformation Specialist working in a manufacturing environment which lead to the production of goods and service, and who are keen to learn and implement MES in their Organisation.

Graduation/ B.tech/ B.Sc. in Microbiology/ Life Sciences/ Botany/ Zoology/ Food Science/ Food Technology/ BE/ B.Pharma/ MBBS/ BDS/ BHS/ BUMS/ BAMS or any other discipline. Diploma holders are eligible for our Executive Diploma, Industry Certificate, and Certificate Programmes.

Who is the course advisor?

The course content and structure are designed by the domain experts from SkillBee Solution with immense experience and knowledge in the relevant standards, our team of product specialists and technical experts at SkillBee Solution, developed the course content based on current business landscape and market requirements.

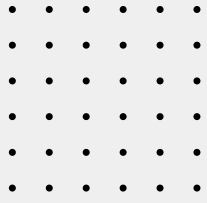
Program Duration:

The candidate is expected to complete the course in 1 months weekend classes.

Registration

The registration will be carried out by contacting on SkillBee Solution.

How to Apply



OTHER DETAILS REGARDING THE COURSE

Certification and Membership Fees

Contact on +91-9691633901, +91-8839538846
Landline number: 0731- 3520480
or info@skillbee.co.in for details of fees structure.

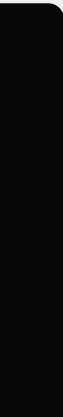
Assessment & Certification

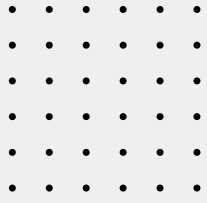
All the participants are expected to appear for online assessment. After successfully qualifying the examination, the participants will be certified as GCP Professional by SkillBee Solution.

Placement Assistance & Corporate Relations

The Institute is not guaranteed for placement but we provide placement assistance to our students as we get any vacancy we share to our students.

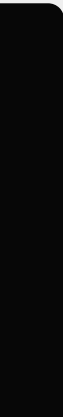
In recent months the Institute has witnessed more and more participation from professionals working with global pharmaceutical, healthcare and food giants like IQVIA, Dr. Reddy's Laboratories, Aurobindo Pharma, Glenmark Generics, Cipla, Mindtree, Cognizant, Lupin, IVY works, Deloitte, EY, Global software resources, Novartis, Vaisesika, Phillips, Wipro, Wockhardt, Pfizer, Abbott, Medtronic, Foster Corporation, IPCA Laboratories, Calyx, Mother Dairy, Bliss GVS Pharma, Al Rawabi, Almarai, Green Pastures, SeQuent, PepsiCo India, Mankind, Beryl Drugs, Allergy Therapeutics, CFTRI, Ciron, Sun Pharmaceutical, GlaxoSmithKline, Ranbaxy , Biocon etc.





BENEFITS OF JOINING THE CERTIFICATION COURSE

- Free Membership for one year to avail chat with our lecturer and other members of the same group
- Free access to costly study material at any time with membership for one year.
- Free access to Interview based question and answer.
- Mock interview class
- Two consecutive batches can be Joined with same fees
- Recordings of class will be available for 30 days from day 1 of class on website to recall and create your own notes
- Resume preparation assistance



CONTACT INFORMATION



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406 Bapu Nagar, 195 bhawarkua main road indore.

PH: +91-9691633901, +91- 889538846

Landline Number: 0731-3520480

Mail: info@skillbee.co.in

Website: <https://skillbee.co.in/>





CERTIFICATE OF COMPLETION

THE CERTIFICATE IS HEREBY GRANTED TO

Nitin Patil

Grade: A+

Congratulations on completing

**Certified Professional in Pharmaceutical
Validation**

Best of Luck for your future !!!!!

Shilpa Goyal

Course Completed on :-

Shilpa Goyal

September 8, 2025

Director,
Company Connect Consultancy



a531f01922cab427



...Nurturing Talents to Success

Dr. A. P. J. Abdul Kalam University
Nurturing Talents to Success...