

It's Objective, learning outcomes, Modules, assessments and material list

NAME OF THE COURSE: Spraying Drone Pilot Training- Krishkati

Submitted to :- Bihar Skill Development Mission, Labour Resources Department, GoB	Submitted By :- Daybest Research Private Limited

Course name: **Spraying Drone Pilot Training- Krishkati**

- Course Id- SDPK
- Candidate Eligibility : 12th Pass/Polytechnic/ITI
- Course Duration: (In hours) 164 Hours

**CONTACT DETAILS OF THE BODY SUBMITTING THE
QUALIFICATION FILE**

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List of documents submitted in support of the Qualifications File

1. Curriculum Document

SUMMARY

Qualification Title	Spraying Drone Pilot Training- Krishakti
Sector	Agriculture
Qualification Code	SDP/01
Nature and purpose of the qualification	Nature 164 Hours Onsite & Offsite Drone Flying Course Purpose Individual passionate for agriculture and aviation can participate in next aerial agricultural revolution and earn livelihood, dignity while being employed by all agrochemical companies, FMCG companies, FPOs, Government agencies.
Body/bodies which will award the qualification	Director General of Civil Aviation
Occupation(s) to which the qualification gives access	Drone Flying
Minimum Age required	18 Years
Entry requirements and / or recommendations	12th Pass/Polytechnic/ITI

1. OBJECTIVE OF THE COURSE: -

Individuals will be able to fly the drones for crop health monitoring, drone spraying activities.

2.LEARNING OUTCOMES :-

1. To fly the drones
2. Knowing DGCA Rules, Digital Sky Platform
3. Drone Maintenance and assembling
4. Agrochemical Quantity and efficiency
5. Data Capturing by Drones
6. Data Processing and analyzing
7. Safety, Regulation and compliances of drone
8. Pre Flight Activities
9. In Flight Activities
10. Postflight Activities
11. Logistics of Drone
12. Personality Development, Communication Skill

Module-1 Regulatory, Compliance and Introduction

Module-2 Drone Assembling & Maintenance

Module-3 Flight Simulator Training

Module-4 Practical Flying with Instructor/ Solo Flying

Module-5 SOP for Spraying Drone

3. Module -

DURATION :- 30 Days Spraying Drone Pilot	
MODULE CODE & NAMES	
1	Code :- SDP/01/01 Module-1 Regulatory, Compliance and Introduction
RATIONALE & OBJECTIVE OF THE MODULES	Knowing about regulatory, compliance and flight dynamics, introduction about drones
MODULE COMPETENCE	This Module will effectively increase understanding about technology, regulation, impact, risk assessment, benefit of drones. Threats, Opportunity, Skill and Impact will be known via each of class, where technical and analytical capabilities will be assessed and trained for knowing aerial physics, dimension and applications
2	Code :- SDP/01/02 Module :- Drone Assembling & Maintenance
RATIONALE & OBJECTIVE OF THE MODULES	Opening the every moving and stable parts of drones, making DIY kit, understanding maintenance of Drones
MODULE COMPETENCE	By learning to assemble drones from different parts and spares, it will enhance career opportunity as pilot and drone maintenance engineer both. Being a technician and piloting the drone both need skill to understand the parts, spares, electronics of drones.
3	Code :- SDP/01/03 Module :- Module-3 Flight Simulator Training

RATIONALE & OBJECTIVE OF THE MODULES	With Flight Simulator, Individual can fly in virtual environment and able to navigate the drone in controlled environment.
MODULE COMPETENCE	This module will increase flying ability in individual and it will train people to fly the drones.
4	Code :- SDP/01/04 Module :- Practical Flying with Instructor/ Solo Flying
RATIONALE & OBJECTIVE OF THE MODULES	On ground with instructor, Individual will fly the actual drones.
MODULE COMPETENCE	Complete understanding of actual flying, preflight operation, mission planning, in flight operation and post flight activities.
5	Code :- SDP/01/04 Module :- SOP for Spraying Drone
RATIONALE & OBJECTIVE OF THE MODULES	This module will cover every aspects of flying spraying drones, understanding of SOPs for agricultural drones.

Residential Training Duration-(15 Days,82hours)

Day	Hour	Type	Description
Day-1	6 Hour	Welcome & Theory	Welcome Kit, Introductions, DGCA Rules, Introduction, Drone Type Usages, Flying Rules in India, Zone Identification
Day-2	6 Hour	Theory	Drone Component, Parts, Electronics & Avionics, Flight Operation & Dynamics
Day-3	1 Hour 5 Hours	Test & Assessment Practical- Flight Simulator Training	Test- Basic Q&A about theory class Practical- Basic Understanding of Drones, Spares & Electronics
Day-4	6 Hours	Practical-Flight Simulator Training	Mission Planning, Pre Flight Preparation, In Flight Preparation, Post Flight Preparation
Day-5	6 Hours	Practical-Actual Drone Flying with Instructor	Basic Assembly & Maintenance, Log Book, Incident Reporting
Day-6	6 Hours	Practical- Actual Drone Flying with Instructor & Solo Flying	Airborne Activity, Collision Avoidance System Usages, Practical Approach
Day-7	6 Hours	Practical- Actual Flying with Instructor & Solo Flying	Mapping, Piloting Skill, Accidental Reporting, Technical Queries
Day-8	4 Hours	Practical Test	Flying as per instructions, Basic drone flying test
Day-9	Rest		
Day-10	6 Hours	Theory- Agricultural Spraying Drone	Agricultural Drone Application, Spraying Drone SOPs
Day-11	6 Hours	Theory	Introduction of Agrochemical, Effect & Cause, Chemical Mixing,

			Spraying Applications
Day-12	6 Hours	Theory	Plant Disease, Soil Health, Nutrition, Fertilizers Applications
Day-13	6 Hours	Practical	Spraying Drones Assembly, Maintenance
Day-14	6 Hours	Practical	Flying of Spraying Drones, Controlling Nozzles, Wind Gust application
Day-15	6 Hours	Test	Flying with Water & Molecules,
Day-16	Induction & Orientation	Certificate Handover Ceremony, Employee Kit Handover, Award Function	Handing Over certificate

Onsite Training- Duration (15 Days, 82 Hours)

Day			
Day-1	6 Hours	Theory	Drone Booking App Training, Farmer Interaction, Assigning Training Manager
Day-2	6 Hours	Theory	Farmer Meets, Agrochemical Companies Meet, Introduction of Products
Day-3	6 Hours	Practical	Understanding Charger, Genset, Battery Capacity, Drone, Bikes
Day-4	6 Hours	Practical	On Farm Spraying-Farmer Interaction, Farm Identification, Assisting in Spraying Operation
Day-5	6 Hours	Practical	On Farm Spraying-Fertilizers
Day-6	6 Hours	Practical	On Farm Spraying-Fertilizers
Day-7	6 Hours	Practical	On Farm Spraying-Crop Protection

Day-8	6 Hours	Practical	On Farm Spraying- Crop Protection
Day-9	6 Hours	Practical	Crop Health Monitoring Drone Mapping
Day-10	6 Hours	Practical	Flying with Multispectral Camera
Day-11	6 Hours	Theory	Data Processing & Crop Health Report
Day-12	6 Hours	Theory	Yield Estimation Ground Truthing
Day-13	6 Hours	Practical	On Farm Monitoring & Spraying
Day-14	4 Hours	Practical	On Farm Spraying
Day-15		Pre Deployment Formalities, Handing Over Equipment, Machinery, Tablet	Assigning Deployment Location, Assigning Flight Supervisor, Providing Tickets & Contact Point for Work Location

Trainer Prerequisites Employability Skills

Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
12th Pass/Polytechnic/ITI/Graduate	Must have a valid Remote Pilot License (RPL) issued by the Directorate General of Civil Aviation (DGCA).	2 years	Commercial drone pilots	2 years	Should have experience in developing and delivering effective drone pilot training programs. Should also have experience in teaching different aspects of drone flying, such as: Drone regulations Drone safety Drone flight operations Drone maintenance Assessment experience	a clean background check -Shall have accident & incident free flying experience in preceding 6 months.