Model Curriculum – Standalone NOS

Entrepreneurship in Drone Assembling

Model Curriculum

NOS Name: Entrepreneurship in Drone Assembling

NOS Code: IID/N0054

NOS Version: 1

NSQF Level: 4

Model Curriculum Version: 1.0

Samadhan Samiti
2nd Floor, Siddhivinayak Building, 27/1/B Samadhan Tower, Gokhale Marg Lucknow - 226001

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Training Parameters

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<tr><td>Sector</td><td>Electronics & HW</td></tr>
<tr><td>Sub-Sector</td><td>Electronics & HW</td></tr>
<tr><td>Occupation</td><td>Entrepreneurship</td></tr>
<tr><td>Country</td><td>India</td></tr>
<tr><td>NSQF Level</td><td>4</td></tr>
<tr><td>Aligned to NCO/ISCO/ISIC Code</td><td>NCO 2015/1120.1700</td></tr>
<tr><td>Minimum Educational Qualification and Experience</td><td>a. Entry Qualification & Relevant Experience:
<table>
<tr><th>S. No.</th><th>Academic/Skill Qualification (with Specialization - if applicable)</th><th>Required Experience (with Specialization - if applicable)</th></tr>
<tr><td>1</td><td>12th grade pass or Pursuing</td><td>No Experience Required.</td></tr>
<tr><td>2</td><td>11th Grade Pass</td><td>1.5 Years of relevant experience.</td></tr>
<tr><td>3</td><td>10th Grade Pass</td><td>3 Years of relevant experience.</td></tr>
<tr><td>4</td><td>Previous relevant Qualification of NSQF Level 3.5</td><td>1.5 Years of relevant experience.</td></tr>
<tr><td>5</td><td>Previous relevant Qualification of NSQF Level 3</td><td>3 Years of relevant experience.</td></tr>
</table>
Age: 18</td></tr>
<tr><td>Pre-Requisite License or Training</td><td>NA</td></tr>
<tr><td>Minimum Job Entry Age</td><td>18 years</td></tr>
<tr><td>Last Reviewed On</td><td>07th October 2025</td></tr>
<tr><td>Next Review Date</td><td>06th October 2028</td></tr>
<tr><td>NSQC Approval Date</td><td>07th October 2025</td></tr>
<tr><td>NOS Version</td><td>1.0</td></tr>
<tr><td>Model Curriculum Creation Date</td><td>19.04.2025</td></tr>
<tr><td>Model Curriculum Valid Up to Date</td><td>06th October 2028</td></tr>
<tr><td>Model Curriculum Version</td><td>1.0</td></tr>
</table>

Minimum Duration of the Course	120 Hours 00 Minutes
Maximum Duration of the Course	120 Hours 00 Minutes

Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Understand how drones are assembled and how they work.
- Learn about different types of drones used in various fields.
- Apply quality control steps during drone assembling.
- Know the rules, safety standards, and legal regulations for drones.
- Learn ways to keep improving drone assembly processes.
- Study market research and how to identify the right customers.
- Understand different business models used in drone assembling.
- Learn legal requirements and how to provide good customer service.
- Gain skills in setting prices, promoting the business, and managing money.
- Learn to handle team management and human resources.
- Use methods for budgeting, controlling costs, and increasing profits.
- Understand how to manage risks and get the right insurance.
- Explore partnerships with auto dealers and rental services.
- Practice using business knowledge in real projects and analyze results.
- Improve writing and presentation skills through project reports.
- Learn how to plan and manage drone assembling projects from start to finish.
- Develop communication skills for dealing with customers and partners.
- Use digital tools and software for business and technical tasks.
- Build confidence to start and manage your own drone assembling business.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
Entrepreneurship in Drones Assembling IID/N0054 NSQF Level – 4	**80:00**	**40:00**	**00:00**	**00:00**	**120:00**
1. Mandatory Industry Specific Technical Modules	**50:00**	**00:00**	**00:00**	**00:00**	**50:00**
Module 1: Introduction to Drone Assembling Business	02:00	00:00	00:00	00:00	02:00
Module 2: Basics of Drone Flying Mechanism	02:00	00:00	00:00	00:00	02:00
Module 3: Main Assembly Components of a Basic Drone	02:00	00:00	00:00	00:00	02:00
Module 4: Basic Understanding of electrical and electronic Systems of Drone	04:00	00:00	00:00	00:00	04:00
Module 5: Basic Drone Software and Controls	02:00	00:00	00:00	00:00	02:00
Module 6: Understanding Power Systems and Battery Management in Drone	04:00	00:00	00:00	00:00	04:00
Module 7: Understanding Drone Propellers and Movement	02:00	00:00	00:00	00:00	02:00
Module 8: Understanding Regulations & Compliance in Drone Assembling	04:00	00:00	00:00	00:00	04:00
Module 9: Identify Troubleshooting of the Drone	04:00	00:00	00:00	00:00	04:00
Module 10: Safety and Risk Management in Drone Assembling	02:00	00:00	00:00	00:00	02:00
Module 11: Assembling a Drone Step-by-Step	02:00	00:00	00:00	00:00	02:00

Module 12: Testing the Assembled Drone Functionality	02:00	00:00	00:00	00:00	02:00
Module 13: Understanding Payload Systems of the Drone	04:00	00:00	00:00	00:00	04:00
Module 14: Operating Drones Using a Controller	04:00	00:00	00:00	00:00	04:00
Module 15: Understanding Drone Direction and Movement	02:00	00:00	00:00	00:00	02:00
Module 16: Implementing Waste Management Techniques for Drone Assembling Business	04:00	00:00	00:00	00:00	04:00
Module 17: Understanding Flying Rules and Safety Guidelines	02:00	00:00	00:00	00:00	02:00
Module 18: Understanding Weather Effects on Drone Operation	02:00	00:00	00:00	00:00	02:00
2. Mandatory Industry Specific Business Modules	**30:00**	**00:00**	**00:00**	**00:00**	**30:00**
Module 19 Market Research for Drone Assembling Businesses	02:00	00:00	00:00	00:00	02:00
Module 20: Identifying Target Customers in the Drone Assembling Business	02:00	00:00	00:00	00:00	02:00
Module 21: Drone Assembling Business Models and Strategies	02:00	00:00	00:00	00:00	02:00
Module 22: Legal Requirements and Regulations for Drone Assembling Businesses	02:00	00:00	00:00	00:00	02:00
Module 23: Product Development and Innovation	02:00	00:00	00:00	00:00	02:00
Module 24: Marketing Essentials for Drone Assembling Businesses	02:00	00:00	00:00	00:00	02:00
Module 25: Managing Finances in a Drone Assembling Business	02:00	00:00	00:00	00:00	02:00
Module 26: Budgeting and Cost Control in Drone Assembling Business	02:00	00:00	00:00	00:00	02:00

Module 27: Supply Chain and Operations Management for Drone Assembling	01:00	00:00	00:00	00:00	01:00
Module 28: Customer Service Skills for Drone Assembling Businesses	01:00	00:00	00:00	00:00	01:00
Module 29: Marketing and Sales Strategy	01:00	00:00	00:00	00:00	01:00
Module 30: Continuous Improvement	02:00	00:00	00:00	00:00	02:00
Module 31: Manage Branding and Promotion of Business	02:00	00:00	00:00	00:00	02:00
Module 32: Human Resource Management in Drone Assembling Business	01:00	00:00	00:00	00:00	01:00
Module 33: Risk Management Strategies for Drone Assembling Business	01:00	00:00	00:00	00:00	01:00
Module 34: Revenue Management Techniques for Drone Assembling Business	01:00	00:00	00:00	00:00	01:00
Module 35: Financial Literacy and Performance Metrics for Drone Assembling Business	02:00	00:00	00:00	00:00	02:00
Module 36: Understanding Import and Export Strategies in Drone Assembling Business	02:00	00:00	00:00	00:00	02:00
3. Detailed Project Report on Drone Assembling Business	**00:00**	**40:00**	**00:00**	**00:00**	**40:00**
Module 37: Detailed Project Report on Drone Assembling Business	00:00	40:00	00:00	00:00	40:00
Total Duration	**80:00**	**40:00**	**00:00**	**00:00**	**120:00**

Module Details

Module 1: Introduction to Drone Assembling Business

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Terminal Outcomes:

- Understand the basic concept, structure, and working of drones.
- Identify and differentiate between various types and categories of drones.
- Learn about key applications of drones across industries like agriculture, delivery, surveillance, and photography.
- Explore recent technological advancements and basic regulations related to drone usage.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Explain the fundamental working and components of a drone. • Classify different types of drones based on design and purpose. • Describe common industrial and commercial applications of drones. • Identify major technological features such as sensors, cameras, and propulsion systems. • Recognize basic legal and regulatory considerations in drone operations.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 2: Basics of Drone Flying Mechanism

Mapped to IID/N0054

Terminal Outcomes:

- Understand the basic principles of flight, including aerodynamic forces like lift, thrust, drag, and weight, which enable drones to overcome gravity and sustain aerial operations.
- Explore the mechanics of drone propulsion systems, such as electric motors and propellers, and the stability and control mechanisms used during take-off, cruising, and landing phases.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students know about the basic Principles of Flight • Students learn how drones achieve and maintain flight • Students learn about the stability and control of drones during different flight phases • Students Understand the Aerodynamic Forces	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment, and Other Requirements	
Laptop or Mobile	

Module 3: Main Assembly Components of a Basic Drone

Mapped to IID/N0054

Terminal Outcomes:

- Identify and describe the key components of a basic drone.
- Understand various materials used and construction techniques for building durable drone frames.
- Interpret and differentiate between basic drone designs and their application

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Name the main parts of a basic drone like frame, motors, propellers, battery, and controller. • Understand what each part does and how they work together. • Know about different materials used to make drone frames, like plastic, carbon fiber, and metal. • Learn how to safely and properly assemble a drone frame. • Recognize different types of drone designs such as quadcopters and hexacopters. • Understand how the shape and design of a drone affect how it flies. • Use this knowledge to help choose the right parts and materials for building a drone.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 4: Basic Understanding of Electrical and Electronic Systems of Drone

Mapped to IID/N0054

Terminal Outcomes:

- Understand the role of batteries and Electronic Speed Controllers (ESCs) in powering drone components.
- Identify key electronic parts used in drones and explain their purpose and basic functioning.

Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students know about Sensors, actuators, microcontrollers, and flight controllers. • Students understand the basic principles of designing and troubleshooting electronic circuits • Students Understanding PID control • Students can analyze other algorithms that are used in drone stabilization and navigation	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 5: Basic Drone Software and Controls

Mapped to IID/N0054

Terminal Outcomes:

- Understand the basics of how programming is used in drones.
- Get an overview of flight control software and its role in drone operation.
- Identify how software is used to control and manage drone functions.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Understand the role of software and programming in operating and controlling drones. • Learn basic programming concepts used in drone systems. • Get an overview of common flight control software and its key functions. • Understand how to use flight control software to set up, calibrate, and manage drone operations.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment, and Other Requirements	
Laptop or Mobile	

Module 6: Understanding Power Systems and Battery Management in Drone

Mapped to IID/N0054

Terminal Outcomes:

- Learn about different types of drone batteries, such as lithium-ion (Li-ion) and lithium-polymer (LiPo), and their performance characteristics, including energy density and weight.
- Understand the importance of battery health and safety management, including preventing overheating, overcharging, and damage during use.
- Gain insights into best practices for battery charging, storage, and maintenance, ensuring longevity, optimal performance, and safe drone operations.

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Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students learn about different types of batteries used in drones • Students understand about monitoring and managing battery health and safety • Students learn best practices for battery charging • Students Understand the Storage and maintenance conditions of batteries	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 7: Understanding Drone Propellers and Movement

Mapped to IID/N0054

Terminal Outcomes:

- Understand how propellers and motors work together to generate thrust and enable drone movement.
- Learn the importance of balancing propellers and motors for stable flight.
- Explain the basic principle of thrust generation in drones.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Understand how propellers and motors work together to make the drone fly and move. • Learn the basic idea of thrust and how it helps the drone lift off and stay in the air. • Know why balancing the propellers and motors is important for smooth and stable flight. • Identify and fix issues related to unbalanced propellers or motor movement.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 8: Understanding Regulations & Compliance in Drone Assembling

Mapped to IID/N0054

Terminal Outcomes:

- Understand the regulations and compliance requirements in drone Assembling, including operational restrictions like no-fly zones, altitude limits, and line of sight (LOS) requirements.
- Gain knowledge and skills for safe drone operation, ensuring responsible and effective flight conduct.
- Be aware of compliance aspects in Assembling, such as adherence to ISO standards and obtaining relevant certifications, to meet regulatory and safety guidelines.

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Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should understand the regulations and compliance requirements in drone Assembling • Students have Knowledge of Operational Restriction including No Fly Zone, Altitude limits, and line of sight (LOS) • Students gain the necessary knowledge and Skills for safe drone operation • Students should have an understanding Compliance of with the Assembling of Drones like ISO and other certifications	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment, and Other Requirements	
Laptop or Mobile	

Module 9: Identify Troubleshooting of the Drone

Mapped to IID/N0054

Terminal Outcomes:

- Identify and troubleshoot common drone issues, developing the ability to resolve problems effectively.
- Understand and perform routine maintenance practices, including component inspection, cleaning, and software updates, to ensure drone longevity.
- Be proficient in repairing damaged components and systems, enabling effective repairs and replacements to extend operational lifespan.

Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should identify and fix common issues with drone • Should gain Knowledge of Routine Maintenance of Drone • Students must have an idea of Regular maintenance practices to ensure drone longevity • Students understand methods for repairing damaged components and systems	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 10: Safety and Risk Management in Drone Assembling

Mapped to IID/N0054

Terminal Outcomes:

- Understand and implement comprehensive safety protocols for drone operations and assembling, identifying and managing potential hazards in flight, maintenance, and production environments.
- Conduct risk assessments to proactively identify, assess, and mitigate risks, ensuring effective control measures are in place to maintain safety.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students know about implementing safety protocols for drone operation and Assembling • Students should know about managing potential hazards • Students understand conducting risk assessments • Knowledge and Procedures for handling in-flight emergencies and crashes	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 11: Assembling a Drone Step-by-Step

Mapped to IID/N0054

Terminal Outcomes:

- Gain a thorough understanding of assembly processes in drone Assembling, including integrating complex components.
- Develop proficiency in comprehensive testing and troubleshooting techniques to ensure the functionality and reliability of drones.
- Learn safety protocols and regulatory compliance to mitigate risks and meet legal standards, ensuring high performance, safety, and adherence to industry requirements.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should have an understanding of the advanced assembly processes of a Drone • Students should know how to build and integrate advanced components • Students should understand Comprehensive testing and troubleshooting • Students should know about Safety and regulatory compliance	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment, and Other Requirements	
Laptop or Mobile	

Module 12: Testing the Assembled Drone Functionality

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Terminal Outcomes:

- Perform functional testing of the assembled drone to check flight performance.
- Build and test drone prototypes to improve design and operation.
- Use virtual tools to simulate and test drone flight dynamics

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Test the basic functions of the assembled drone to ensure it works correctly. • Build and evaluate drone prototypes to improve design and performance. • Use virtual tools to simulate and test drone flight behaviour. • Identify and fix issues found during testing and apply improvements.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 13: Understanding Payload Systems of the Drone

Mapped to IID/N0054

Terminal Outcomes:

- Understand the different types of payloads (cameras, sensors, delivery packages) and their applications in various drone operations.
- Learn how to integrate and mount payloads, ensuring stability and optimal performance, including proper gimbal usage.
- Analyze the impact of payloads on drone performance, and conduct regular testing to ensure functionality, stability, and reliability.

Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should understand the types of payloads and their applications • Students know the integration of payloads including mounting of gimbals • Students understand the Payload Impact on Drone Performance • Students analyze regular testing of drones for smooth functioning.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 14: Operating Drones Using a Controller

Mapped to IID/N0054

Terminal Outcomes:

- Operate drones using a manual controller effectively.
- Understand and apply autonomous features like path planning, object tracking, and geotagging.
- Perform basic calibration, tuning, and testing for smooth and safe drone operations.

Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Understand how to operate a drone using a remote controller. • Understand the basics of autonomous functions like path planning, object tracking, and geotagging. • Student will learn how to calibrate a drone before flight. • Student will learn to fine-tune drone settings for smooth and stable flight. • Understand the process of testing drones to ensure they are ready and safe for use	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 15: Understanding Drone Direction and Movement

Mapped to IID/N0054

Terminal Outcomes:

- Understand how drones move and change direction using various sensors and GPS systems.
- Learn how to track the real-time location, speed, and direction of drones using GPS and motion sensors.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Understand how drones move in different directions (up, down, forward, backward, sideways). • Learn how drones turn and change direction during flight. • Know how GPS helps in tracking the drone's real-time location. • Understand the role of motion sensors in detecting speed and direction. • Learn how GPS and sensors work together to control and monitor drone movement.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 16: Implementing Waste Management Techniques for Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Implement waste management strategies for e-waste, including recycling circuit boards and batteries.
- Minimize material wastage during drone Assembling processes.
- Ensure proper handling and disposal of hazardous materials like adhesives and coatings.
- Develop sustainable packaging solutions for drones.

Duration: *<04:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Recognize the types of waste generated in drone Assembling. • Implement e-waste recycling practices. • Develop strategies for sustainable material usage. • Ensure adherence to waste management laws and policies.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 17: Understanding Flying Rules and Safety Guidelines

Mapped to IID/N0054

Terminal Outcomes:

- Develop a thorough understanding of national and international aviation regulations to ensure drones comply with legal standards in various jurisdictions.
- Learn the procedures for certifying drones and obtaining operational approvals, which are essential for legal and commercial operations.
- Understand risk assessment, emergency procedures, and safety best practices to mitigate hazards and ensure safe drone operations, ensuring compliance and safety in drone ventures.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should understand national and international aviation regulations. • Students should know about procedures for certifying drones • Students should know about how to obtain operational approvals • Students Should know about Risk assessment, emergency procedures, and safety best practices.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 18: Understanding Weather Effects on Drone Operation

Mapped to IID/N0054

Terminal Outcomes:

- Understand how different weather conditions like wind, temperature, and humidity affect drone performance and flight safety.
- Identify and apply risk mitigation strategies for flying drones safely in changing weather conditions.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Understand the impact of wind, temperature, and humidity on drone performance and flight stability. • Student will learn to recognize unsafe weather conditions that may affect drone operations. • Gain knowledge on how to check and interpret weather data before planning a drone flight. • Learn to apply basic safety and risk reduction strategies for flying drones in changing weather conditions.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 19: Market Research for Drone Assembling Businesses

Mapped to IID/N0054

Terminal Outcomes:

- Learn how to conduct thorough market research to gather insights into customer preferences, industry trends, and competitive dynamics, using methods like surveys, interviews, and focus groups.
- Analyze market research findings to identify opportunities for business growth, product innovation, and the development of effective marketing strategies.
- Use market research data to inform strategic decision-making, enhancing competitiveness and driving the success of entrepreneurial ventures.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should know how to conduct market research to gather insights into customer preferences, industry trends, and competitive dynamics. • Students should identify appropriate research methodologies, such as surveys, interviews, and focus groups, to collect relevant data from target markets. • Students should analyze market research findings to identify opportunities for business growth, product innovation, and marketing strategy development. • Students should use market research data to inform strategic decision-making and improve competitiveness.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 20: Identifying Target Customers in the Drone Assembling Business

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Terminal Outcomes:

- Delve into identifying target customer segments within the drone Assembling industry through thorough market analysis, gaining insights into customer needs and preferences for product development.
- Develop detailed customer personas to represent various segments, enabling the creation of tailored marketing strategies.
- Learn to design and implement targeted marketing campaigns with precise messaging to effectively engage specific customer segments, enhancing marketing impact and success.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students learn about the target customer segments for drone Assembling • Students Conduct market analysis to identify potential customer needs, preferences • Students understand and develop customer personas to represent different segments of the target audience and tailor marketing strategies accordingly. • Students learn and implement targeted marketing campaigns and messaging to reach and engage specific customer segments effectively.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment, and Other Requirements	
Laptop or Mobile	

Module 21: Drone Assembling Business Models and Strategies

Mapped to IID/N0054

Terminal Outcomes:

- Explore various business models and revenue streams in drone Assembling, evaluating their pros and cons, including investment needs, scalability, and market opportunities.
- Develop comprehensive business strategies and operating models aligned with specific goals and resources of a drone Assembling venture.
- Identify strategies for differentiation, competitive advantage, and sustainable growth, ensuring long-term success in a competitive market.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students explore and learn different business models and revenue streams for drone Assembling businesses • Students easily evaluate the pros and cons of each business model in terms of investment requirements, scalability, and market opportunities. • Students will develop a business strategy and operating model that aligns with the goals and resources of the drone Assembling venture. • Students can identify strategies for differentiation, competitive advantage, and sustainable growth in the drone Assembling market.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 22: Legal Requirements and Regulations for Drone Assembling Businesses

Mapped to IID/N0054

Terminal Outcomes:

- Gain an understanding of the legal and regulatory framework governing drone Assembling, including licensing, permits, and industry-specific aviation regulations.
- Develop compliance strategies and procedures to ensure adherence to laws and regulations set by authorities like the Directorate General of Civil Aviation.
- Establish systems to monitor regulatory changes, ensuring continuous compliance and the ability to update business practices accordingly

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Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students will understand the legal and regulatory framework governing drone Assembling businesses, including licensing, and permits • Students can identify industry-specific regulations and standards related to aviation and comply with the Directorate General of Civil Aviation • Students will develop compliance strategies and procedures to ensure adherence to applicable laws and regulations. • Students can establish systems for monitoring regulatory changes and updating policies and practices to maintain compliance.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 23: Product Development and Innovation

Mapped to IID/N0054

Terminal Outcomes:

- Learn to utilize advanced materials like carbon fiber, graphene, and nanomaterials to reduce weight and enhance the strength and durability of drones.
- Understand the development of high-capacity, fast-charging batteries to extend flight times and improve efficiency, alongside enhancing imaging capabilities with high-resolution cameras for better data capture.
- Explore the application of AI for real-time data processing and object recognition, enabling smarter and more autonomous drone operations.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should learn the use of advanced materials like carbon fiber, graphene, and nanomaterials to reduce weight and increase strength • Students should Understand the development of high capacity fast charging batteries • Students should enhance imaging capabilities with high-resolution cameras • Students should understand the use of AI for real-time data processing and object recognition	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 24: Marketing Essentials for Drone Assembling Businesses

Mapped to IID/N0054

Terminal Outcomes:

- Learn fundamental marketing concepts and principles relevant to the drone Assembling industry, including understanding market dynamics, target markets, and customer segments.
- Develop effective marketing strategies and positioning tailored to the unique demands of drone Assembling, while creating promotional campaigns to engage target customers.
- Become proficient in utilizing marketing tools and channels such as advertising, branding, digital marketing, and CRM to drive business growth and enhance competitive advantage.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students will learn fundamental marketing concepts and principles relevant to the drone Assembling industry. • Students will identify target markets, customer segments, and positioning strategies for drone Assembling businesses. • Students will develop marketing strategies and promotions to reach and engage target customers. • Students can utilize marketing tools and channels such as advertising, branding, digital marketing, and customer relationship management (CRM) to drive business growth.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 25: Managing Finances in a Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Develop essential financial management skills to manage revenue, expenses, and cash flow, with an understanding of basic accounting principles and financial statements like income statements, balance sheets, and cash flow statements.
- Learn to implement budgeting and forecasting processes for precise planning and control of expenses, investments, and growth initiatives in a drone Assembling business.
- Utilize financial analysis tools and metrics to evaluate business performance, profitability, and ROI, ensuring informed decision-making and sustainable financial health for the venture.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students develop financial management skills to effectively manage revenue, expenses, and cash flow in a drone Assembling business. • Students will Understand basic accounting principles and financial statements, including income statements, balance sheets, and cash flow statements. • Students can implement budgeting and forecasting processes to plan and control expenses, investments, and business growth initiatives. • Students may utilize financial analysis tools and metrics to evaluate business performance, profitability, and return on investment (ROI)	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 26: Budgeting and Cost Control in Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Develop essential budgeting skills to allocate financial resources effectively within the drone Assembling business, identifying fixed and variable costs such as supplies and maintenance.
- Learn to implement cost control measures to reduce expenses, optimize resource utilization, and improve profitability, with a focus on monitoring budget performance.
- Conduct variance analysis to identify opportunities for cost savings and operational improvements, equipping students with the financial acumen necessary to sustain a successful drone Assembling business.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students develop budgeting skills to allocate financial resources effectively and efficiently in the drone Assembling business • Students identify fixed and variable costs associated with operating a drone Assembling business, including supplies, and maintenance. • Students can implement cost control measures to reduce expenses, optimize resource utilization, and improve profitability. • Students will monitor budget performance and variance analysis to identify opportunities for cost savings and operational improvement.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 27: Supply Chain and Operations Management for Drone Assembling

Mapped to IID/N0054

Terminal Outcomes:

- Students will learn to identify reliable suppliers and build strategic relationships to ensure consistent quality and cost-effective supply chains.
- They will gain expertise in Just-In-Time (JIT) inventory systems to reduce costs and optimize resource management.
- Students will master the efficient distribution of drones, ensuring timely delivery and high customer satisfaction.

Duration: *<01:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should identify reliable suppliers for raw materials and electronic components. • Students should develop strategic relationships with key suppliers to ensure continuous supply and potential cost reductions • Students should implement JIT inventory systems to reduce holding costs and minimize waste. • Students should efficiently manage the distribution of finished drones to customers, ensuring timely delivery.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 28: Customer Service Skills for Drone Assembling Businesses

Mapped to IID/N0054

Terminal Outcomes:

- Students will develop essential customer service skills, such as active listening, empathy, and effective communication, to enhance the customer experience.
- They will gain insights into customer expectations, enabling them to tailor interactions and handle inquiries, complaints, and feedback efficiently.
- Students will learn to empower employees through training, recognition, and support, fostering a customer-centric culture within the organization.

Duration: *<01:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students develop essential customer service skills, such as active listening, empathy, and effective communication, to enhance the customer experience. • Student will understand customer expectations and preferences • Students learn techniques for handling customer inquiries, complaints, and feedback professionally and efficiently. • Students empower other employees to deliver exceptional customer service through training, recognition, and support.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 29: Marketing and Sales Strategy

Mapped to IID/N0054

Terminal Outcomes:

- Students will develop a strong brand identity focused on innovation, quality, and reliability, positioning products as premium solutions.
- They will learn digital marketing strategies, including SEO, SEM, and social media, to engage target audiences effectively.
- Students will identify strategic partnerships with distributors and dealerships to expand market reach and drive customer loyalty.

Duration: *<01:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students develop a strong brand identity emphasizing innovation, quality, and reliability. • Students will analyze position products as premium solutions with superior performance and customer satisfaction • Students build digital marketing campaigns (SEO, SEM, social media) to reach target audiences • Students analyze key Distributors and authorized dealerships	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 30: Continuous Improvement

Mapped to IID/N0054

Terminal Outcomes:

- Students will use customer feedback and industry trends to drive continuous innovation and prioritize improvements in drone Assembling.
- They will foster a culture of creativity and adaptability within their teams to encourage proactive problem-solving and innovation.
- This approach will enhance product development, and customer satisfaction, and position the business as a leader in drone technology innovation.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students implement suggestions for continuous innovation • Students can analyze improvements based on reviews by the customers • Students will be updated with industry trends and adapt strategies accordingly. • Student may foster a culture of innovation and continuous learning	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 31: Manage Branding and Promotion of Business

Mapped to IID/N0054

Terminal Outcomes:

- Develop and implement effective branding strategies to establish a strong market presence.
- Plan and execute promotional campaigns using appropriate channels to reach the target audience.
- Analyze and evaluate the performance of branding and promotional activities using measurable KPIs.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Understand Branding Fundamentals • Design a cohesive branding strategy to position the business in the market. • Create engaging content and promotional materials for various platforms. • Apply digital tools like social media, email marketing, and SEO for branding. • Ensure compliance with regulations and maintain ethical practices in branding and promotions.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 32: Human Resource Management in Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Students will develop HR skills to effectively recruit, train, and retain a high-performing workforce while ensuring compliance with employment laws.
- They will learn to design training and development programs to enhance employee skills and performance, fostering continuous improvement.
- Implementing performance management, feedback, and recognition programs will be emphasized to motivate employees and create a positive work environment.

Duration: *<01:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Should develop human resource management skills to recruit, train, and retain a high-performing workforce in the drone Assembling business. • Students should understand employment laws and regulations governing hiring, compensation, benefits, and workplace safety. • Students develop employee training and development programs to enhance skills, knowledge, and job performance. • Students should implement performance management processes, feedback mechanisms, and recognition programs to motivate and engage employees.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 33: Risk Management Strategies for Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Students will understand supply chain risks, including supplier reliability, logistics, and production processes, to ensure efficient operations and high-quality output.
- They will learn to assess regulatory, compliance, and market risks to adhere to industry standards and stay competitive.
- Students will develop skills in risk management to build resilient businesses and capitalize on emerging opportunities.

Duration: *<01:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should understand supply chain Risks including supplier reliability, logistics, and transportation • Students should understand Operational Risks including production process, quality control, and financial risks • Students should understand Regulatory and Compliance Risks including product certification and technological risks • Students should understand Market Risks like Market Research, Competitive Analysis, and Innovation.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 34: Revenue Management Techniques for Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Students will learn sales optimization strategies, including direct/indirect sales channels and expanding into international markets to maximize revenue.
- They will develop proficiency in pricing strategies, bundling techniques, and customer relationship management to enhance profitability and customer loyalty.
- By integrating these strategies, students will drive business growth and maintain a competitive edge.

Duration: *<01:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should understand sales optimization including direct sales, indirect sales, and international markets • Students should understand Pricing Strategies including dynamic pricing, and value-based pricing. • Students should understand Bundling and Packaging including product bundling, volume discounts, and subscription models • Students should understand customer relationship management including customer segmentation, customer retention, and customer acquisition	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 35: Financial Literacy and Performance Metrics for Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Students will develop a strong understanding of financial statements, including income statements, balance sheets, and cash flow statements, to assess profitability, financial position, and liquidity.
- They will learn to interpret key financial ratios, such as gross profit margin and ROI, to evaluate financial performance.
- Mastery of these concepts will enable students to effectively manage and analyze business finances.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Students should understand financial statements including income statements, gross profit, and operating expenses • Students should understand the balance sheet including assets, liabilities, and equity • Students should understand the cash flow statement including operating activities, investing activities, and financing activities • Students should understand financial ratios including gross profit margin, profit margin, and return	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 36: Understanding Import and Export Strategies in Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Develop tailored strategies to expand the global reach of drone Assembling businesses.
- Navigate international regulatory landscapes to ensure smooth trade operations.
- Build sustainable supply chains for the Assembling and export of drones.

Duration: *<02:00>*	**Duration**: *<00:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
• Identify and assess global opportunities and challenges in the drone Assembling industry. • Develop robust import and export strategies that align with industry regulations. • Effectively manage international trade operations for drones and components. • Build a competitive edge in the global drone market through strategic decision-making.	NA
Classroom Aids:	
PC's / Laptop with Internet Connection	
Tools, Equipment and Other Requirements	
Laptop or Mobile	

Module 37: Detailed Project Report on Drone Assembling Business

Mapped to IID/N0054

Terminal Outcomes:

- Students will develop comprehensive project plans, including business proposals, financial projections, and operational strategies tailored to the drone Assembling industry.
- They will demonstrate proficiency in selecting and utilizing appropriate research methods to gather and analyze market data.
- Students will apply insights from their research to make informed decisions for the business.

Duration: *<00:00>*	**Duration**: *<40:00>*
Theory – Key Learning Outcomes	**Practical – Key Learning Outcomes**
NA	• Demonstrate an understanding of entrepreneurship by defining and interpreting various definitions and perspectives, and effectively planning and proposing a project. • Demonstrate the importance of creativity and innovation in entrepreneurship, and showcase proficiency in cultivating a culture of idea generation, selecting appropriate research methods, and collecting data. • Demonstrate competence in managing project execution and resources efficiently by identifying and describing the steps involved in the entrepreneurial journey, from idea generation to execution. • Demonstrate competence in analyzing the characteristics of successful entrepreneurial ventures, drawing lessons from market leaders, and managing project execution and resources effectively. • Demonstrate the ability to embrace failure, learn from setbacks, and bounce back stronger, while analyzing and interpreting data accurately. • Demonstrate competence in evaluating decision-making strategies under uncertainty, and making informed choices in uncertain environments by writing and

	structuring a comprehensive project report. • Demonstrate proficiency in identifying and navigating regulatory requirements for obtaining business licenses and permits, and selecting appropriate research methods for data collection. • Demonstrate competence in managing project execution and resources by explaining the concept of bootstrapping and how to make the most of limited resources in a start-up. • Demonstrate competence in describing government support programs available to entrepreneurs, including grants, loans, and incentives, and effectively managing project execution and resources. • Demonstrate the ability to evaluate case studies of entrepreneurial setbacks and recoveries, extracting key learnings and writing a structured project report. • Create an introduction to drone design and development, outlining its scope, potential market, and the purpose of the project. • Demonstrate proficiency in applying market research techniques to gather relevant data for drone Assembling businesses and selecting appropriate research methods. • Demonstrate competence in identifying and evaluating the machine and equipment required for a drone Assembling business, selecting appropriate research methods, and collecting data. • Demonstrate competence in identifying types of drones and their applications across different fields, while managing project execution effectively. • Demonstrate the ability to explain the basics of programming microcontrollers used in drones.

	• Demonstrate knowledge of basic principles in designing and troubleshooting electronic circuits. • Demonstrate competence in explaining the stability and control of drones during different flight phases. • Demonstrate proficiency in discussing radio frequencies, transmitters, and receivers. • Demonstrate the ability to analyze the basics of programming microcontrollers used in drones. • Demonstrate understanding of the concept of FPV technology and the structure of a comprehensive project report. • Demonstrate proficiency in evaluating key factors contributing to the success of a drone Assembling business, and developing strategies for growth and sustainability. • Demonstrate the ability to identify and analyze target customers for a drone Assembling business while efficiently managing project execution and resources. • Create business models and strategies tailored to the drone Assembling industry, and demonstrate effective planning and proposal techniques. • Demonstrate competence in explaining the legal requirements and regulations applicable to drone Assembling businesses while managing project execution efficiently. • Demonstrate customer service skills relevant to the drone Assembling industry, ensuring effective management of project execution and resources. • Demonstrate proficiency in describing essential marketing techniques for promoting a drone Assembling business, while effectively utilizing research methods and data collection. • Demonstrate effective financial management in a drone Assembling

	business, including budgeting and cost control, while managing project execution and resources. • Create a comprehensive business plan for a drone Assembling business, including financial projections and marketing strategies, demonstrating effective planning and proposal techniques. • Demonstrate understanding of insurance requirements for drone Assembling and how to manage them, while effectively writing and structuring a comprehensive project report. • Demonstrate networking skills relevant to the drone Assembling industry, ensuring effective management of project execution and resources. • Create a comprehensive risk analysis covering supply chain risks, operational risks, regulatory and compliance risks, and market risks, ensuring effective management and decision-making.
Classroom Aids:	
NA	
List of Tools and Equipment at Industry Site (For Project Work /Entrepreneurship):	
Screwdrivers (Phillips and flat-head), Pliers (needle-nose, cutting), Wire strippers and crimpers, Soldering iron and soldering station, Tweezers, Small wrench set, Digital calipers, Multimeter, Ruler and tape measure, Microcontrollers, Sensors (gyroscope, accelerometer, GPS modules), Motors (brushless DC motors), ESCs (Electronic Speed Controllers), Propellers, Flight controllers, Batteries (LiPo batteries) and chargers, Connectors and cables, Breadboards and jumper wires, Resistors, capacitors, and other passive components	

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	**Specialization**	**Relevant Industry Experience**		**Training Experience**		**Remarks**
		Years	***Specialization***	***Years***	***Specialization***	
MBA or		5	Business or consultancy experience in the relevant field	NA	NA	NA
12th Pass or	NA	10	Business or consultancy experience in the relevant field	NA	NA	NA
Graduate or	NA	7	Business or consultancy experience in the relevant field	NA	NA	NA
Entrepreneurs	Drone Assembling or Drone Manufacturing	7	Business or consultancy experience in the relevant field	NA	NA	NA

Trainer Certification

Trainer Certification	
Domain Certification	**Platform Certification**
Certified for Job Role "Entrepreneurship in Drone Assembling", mapped to NOS Code: "IID/N0054, v1.0", Minimum accepted score is 80%.	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack: "Trainer (VET and Skills) MEP/Q2601 v3.0". Minimum accepted score is 80%.

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	**Specialization**	**Relevant Industry Experience**		**Training/ Assessment Experience**		**Remarks**
		Years	***Specialization***	***Years***	***Specialization***	
MBA with B. Tech	Aerospace or Mechanical Engineering	3	Experience in relevant qualifications and an entrepreneur in a similar field with 5 Years of experience	NA	NA	NA

Assessor Certification

Assessor Certification	
Domain Certification	**Platform Certification**
Certified for Job Role "Entrepreneurship in Drone Assembling", mapped to NOS Code: "IID/N0054, v1.0", Minimum accepted score is 80%.	Recommended that the Assessor is certified for the Job Role: "Assessor", mapped to the Qualification Pack: "Assessor (VET and Skills) MEP/Q2701 v3.0". Minimum accepted score is 80%.

Assessment Strategy

Assessment Overview: The assessment strategy for the Entrepreneurship in Drone Assembling qualification is designed to comprehensively evaluate students' understanding, application, and integration of theoretical concepts with practical skills in managing a drone Assembling business. The assessment methods include written assignments and case studies, MCQ-based segment-wise final tests, development, and evaluation of a comprehensive project report based on experiential learning, and a viva voice examination on the project work undertaken by the students.

Assessment Methods:

1. **Written Assignments and Case Studies:**
   - Purpose: To assess students' ability to analyze and solve real-world problems related to drone Assembling business management.
   - Description: Students will be required to complete written assignments and case studies that simulate scenarios encountered in the drone Assembling industry. These assessments will evaluate their critical thinking, problem-solving, and decision-making skills.

2. **MCQ-Based Segment Wise Final Test:**
   - Purpose: To evaluate students' understanding of key concepts and principles covered in each module of the qualification.
   - Description: The final test will consist of multiple-choice questions (MCQs) covering each module of the qualification. This assessment will test students' knowledge and comprehension of the course material.

3. **Development & Evaluation of a Comprehensive Project Report:**
   - Purpose: To assess students' ability to apply theoretical concepts to real-world situations and to effectively communicate their findings and recommendations.
   - Description: Students will undertake a practical project (e.g., market research, operational improvement, marketing strategy) related to drone Assembling business management. They will develop a comprehensive project report based on their experiential learning, detailing their project objectives, methodology, findings, and recommendations. The project report will be evaluated based on its clarity, depth of analysis, and practical relevance.

4. **Viva on the Project Work Taken Up:**
   - Purpose: To assess students' understanding of their project work and their ability to articulate and defend their findings and recommendations.
   - Description: Students will participate in a viva voice examination where they will present and discuss their project work with a panel of examiners. The viva will assess their knowledge, understanding, and critical reflection on their project, as well as their ability to respond to questions and feedback.

Assessment Criteria: The assessment criteria for each assessment method will be aligned with the learning outcomes of the qualification. Criteria may include:

- Demonstration of understanding and application of theoretical concepts.
- Critical analysis and evaluation of information.
- Effectiveness of communication and presentation.
- Creativity and innovation in problem-solving.
- Ability to work independently and collaboratively.
- Ability to reflect on learning and apply feedback.

Assessment Schedule: Assessment tasks will be distributed throughout the duration of the qualification to ensure ongoing feedback and opportunities for improvement. The final project report and viva voice examination will typically be scheduled toward the end of the qualification, allowing students to integrate and apply their learning from the entire program.

Assessment Integrity: To ensure the integrity of the assessment process, all assessments will be conducted by the institution's policies and procedures. Measures will be in place to prevent plagiarism and cheating, and assessments will be marked by qualified and impartial assessors, as elaborated in the Qualification File.

Conclusion: The assessment strategy outlined above aims to provide a rigorous and comprehensive evaluation of students' knowledge, skills, and competencies in managing a drone Assembling business. By combining written assignments, tests, project work, and viva voice examinations, the assessment strategy ensures that students are well-prepared to succeed in the dynamic and competitive drone Assembling industry.

References

Glossary

Term	Description
Declarative Knowledge	Declarative knowledge refers to facts, concepts, and principles that need to be known and/or understood to accomplish a task or to solve a problem.
Key Learning Outcome	The key learning outcome is the statement of what a learner needs to know, understand, and be able to do to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory), and skills (practical application).
OJT (M)	On-the-job training (Mandatory); trainees are mandated to complete specified hours of training on-site
OJT (R)	On-the-job training (Recommended); trainees are recommended the specified hours of training on-site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work or produce a tangible work output by applying cognitive, affective, or psychomotor skills.
Training Outcome	Training outcome is a statement of what a learner will know, understand, and be able to do upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand, and be able to do upon the completion of a module. A set of terminal outcomes helps to achieve the training outcome.

Acronyms and Abbreviations

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
SOP	Standard Operating Procedure
WI	Work Instructions
PPE	Personal Protective Equipment