

SACAA/1553ATO



**UNMANNED AIRCRAFT
SYSTEM MAINTENANCE
TECHNICIAN (UASMT)
COURSE
2024**



UASMT COURSE ADMISSION REQUIREMENTS 2024



Unmanned Aircraft system Maintenance Technician (UASMT)
Fundamentals of drone maintenance principles, concepts and
hands-on experience necessary to obtain the UASMT license
from the South African Civil Aviation Authority.

Dear Student,

Thank you for choosing Ntsu Drone Academy to do your UASMT course.

Admin requirements:

The following documents are required from each student:

- ❖ Completed Student Information Form (Sent via email before the start of UASMT training)
- ❖ ID Document or Passport for non South-African citizens.
- ❖ No aviation medical required.
- ❖ Minimum age for UASMT training is 18 Years of age.



Course objectives

- Part 101 maintenance requirements within the context of an ATO and the ROC.
- Practical experience to perform maintenance functions for the specific aircraft type.
- Basic understanding of various drone components (e.g. airframe, battery care, ESC etc.)

Course Delivery

- Learning Style: Classroom and Practical
- Duration: Up to 16 hours

UASMT Course Description

The course is designed to provide participants with a fundamental understanding of drone maintenance principles and concepts. The course also provides practical experience necessary to attain an UASMT license as per Part 101 requirements.

Student will receive UASMT license issued by the Civil Aviation Authority after successful completion of training.

MAINTENANCE
TECHNICIAN
SYLLABUS

U
A
S
M
T



Why Maintenance

- Concept of maintenance (ICAO Annex 8).
- Role of maintenance in the organization's Safety. Management System (Annex 19).
- Part 101 regulations.
- Documentation (Records etc.)

Power Plant

- Batteries
 - Battery Types.
 - Charging-Discharging.
 - Handling.
 - Transportation.
 - Storage.

Propulsion System

- Motors
- Propellers
- ECS

Software/Firmware

- Update

Pre/Post Flight Inspection

- Checklists

Airframe

- Inspection
 - Airframe
 - Landing Structure
 - Payload Mount
 - Antennae

Remote Pilot Station (RPS)

- Inspection
- Controls and buttons

Compass

- Calibration



Official reseller



CONTACT US:

NTSU Drone ACADEMY:

Contact: Ms. Phaphama Nxumalo (Administrator)

Cell: +27 (0) 82 909 0848

Email: Phaphama@Ntsuaviation.com

Website: www.Ntsuaviation.com

NTSU DRONE ACADEMY:

Contact: Ms. Mbalenhle Mphage (Chief flight instructor)

Cell: +27 (0) 67 604 8779

Email: Mbalenhle@Ntsuaviation.com or Droneacademy@Ntsuaviation.com

Website: www.Ntsuaviation.com