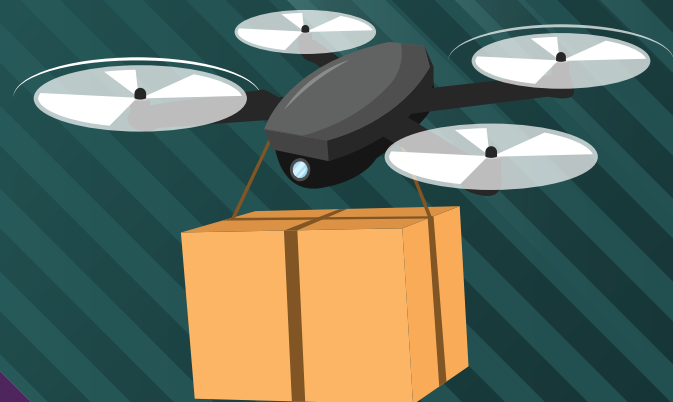




PROFESIONAL DRONE OPERATOR (PDO)

.....BEYOND
TECHNOLOGIES



ABOUT URA

UAS and Robotics Academy (M) Sdn Bhd - URA delivers training for Autonomous System Operators. We design and integrate the industry's most comprehensive training solutions, anchored by the knowledge on system requirements and operational performance. URA provides comprehensive services on ground and flight training for unmanned aerial services, integrated with Robotics solutions. Our expertise transcends operational experience to help Autonomous operators enhance safety, improve efficiency and maintain readiness.



TRAINING METHODOLOGY

Flash Card Techniques

Audio & Video Tools

Ground School Syllabus

Reference Books on Creativity

Instrument & Tools

Inquiry & Cooperative Base Learning

WHO SHOULD ATTEND

With experts predicting, many jobs will be obsolete with the next decade within the Industrial Revolution 4.0 Drones and the demand for UAS operators will emerge as a key growth industry.

- Oil and Gas
- Enforcement
- Municipal
- Transportation
- Construction
- Infrastructure
- Search and Rescue
- Wildlife Conservation
- Disaster Management
- Telecommunication & Energy
- Agriculture
- Plantation
- Insurance
- Mining
- Survey
- Media
- Environmental

WHY UAS & Robotics Academy

We conduct training and flying with complete theoretical and practical training in accordance with International Standards and Regulatory Compliance



lecturers and instructors are well trained professionals with long term experience in aviation



Comprehensive knowledge and know how in operating unmanned aerial operations.



Modern and up to date interactive audiovisual training methods



Providing wide range of training materials, videos and interactive training software

COURSE OUTLINE

PD0-01 LEVEL 1 (BASIC) COURSE CONTENT

THEORY	FLIGHT PHASE
Aircraft General Knowledge	Flight Patterns
Airlaw - Part 1	Emergency Landing Procedures
Airlaw - Part 2	Solo Supervision
Meteorology	Flight Assessment
Navigation	
Operational Safety	
Maps and Risk Matrix	

PD0-02 LEVEL 2 (ADVANCE) COURSE CONTENT

THEORY
Unmanned Aerial Systems / Vehicles Past, Present & Future
General Handling on Normal Operations
General Handling on Abnormal Operations
Airspace Design for UAS and Operating Requirements
Commercial UAS Requirements - Preparing the Operations
Manual Commercial UAS - Obtaining Approvals
UAS Flight Planning
Operational Planning
Applied Meteorology
Applied Navigation
Safety Management System - UAS Introduction / Definition
of Human Factors Assessing Risk
Hazard Identification
Aeronautical Decision Making
Operational Decision Making - PAVE
Remote Controller Calibration - Coding on the Fly
Gimbal Calibration
Compass Calibration
IMU Calibration

PD0-03 LEVEL 3 (PROFESSIONAL) COURSE CONTENT

THEORY
Photogrammetry Optical Sensing
Multi-Spectral - Thermal
- Infra Red
Optical Sensor - Time of Flight
- Mission Planning
- Flight Plan
UAS Imagery
- Metadata
- Data Collection
- Field Ground Control Points
Overview of Data Processing Tools and Data Analysis - Radiometric
- Geometric Correction
Image Stitching
- Spectral and Radiometric Image Enhancements
- Map Generation Application
Open Source (GGIS)
- Pix4D
Drone Deploy
- PrecisionHawk Real Agri Project Proper Data Handling Safety Issue

PATHWAY

PDO (5 weeks)

Apprenticeship + Internship

Employment (t&c apply)



Adroit

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