



Name of the Program(s): - Short course- Professional Training in Drone Repair and Maintenance (DRM), [Training Certificate in How to Build Drones – UAVs and ROVs](#), Trainings Certificate in Drone Assembling and UAEs and ROVs, [Professional Drone Repair Technician](#).

Are you interested in earning your Short Training Certificate in Drone Repair and Maintenance (DRM) or Training in How to build your Drones –UAVs and ROVs Professional Trainings certification, but you're unsure how to start the process? While this is a great step for your individual career, it doesn't have to be a complex one really if you study from GEPEA. This is the ultimate guide on Drone Repair and Maintenance certification, Professional Drone Repair Technician and it can be your easy roadmap for navigating this process. You may explore some common questions you might have about Drone Repair and Maintenance certification holder.

What is Drone Repairs and Maintenance (DRM) Trainings?

The GEPEA Training course teaches the student how diagnose and repair common drone technical and mechanical issues. Damage resulting from most crashes can be repaired easily by yourself allowing you to get back in the air quicker. Discussion of causes that lead to accidents and how to repair your own drone are presented. Instruction is provided by expert to diagnosis and repair drones. Students may attend this course for short training and certification.

Trainings in Drone Repairs and Maintenance Certifications

GEPEA

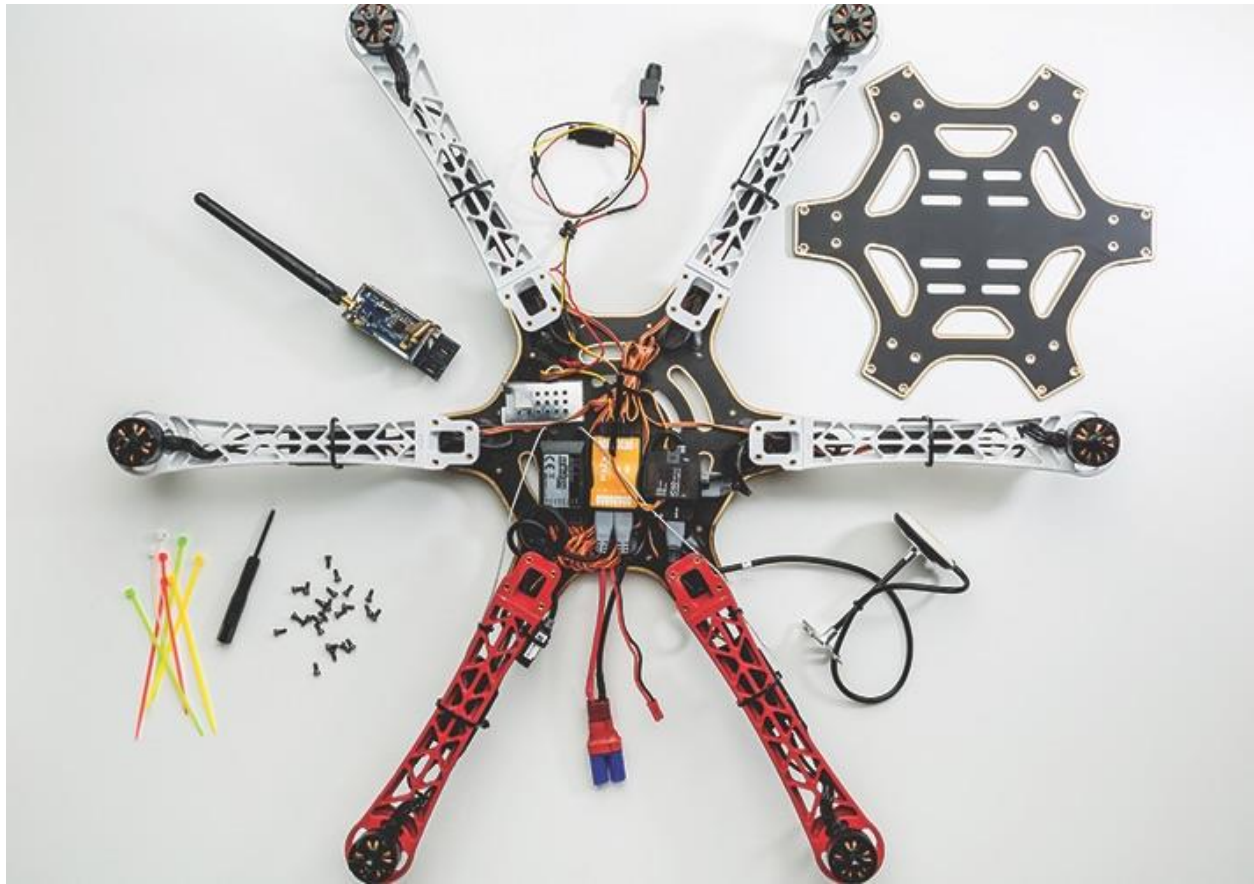


DRONE

MAINTENANCE & REPAIR

CERTIFICATION COURSE





DRONE REPAIRS AND MAINTENANCE, DRONE BUILDING AND ASSEMBLING PROFESSIONAL TRAININGS

Training Hours: 30 GEPEA Credit hours.

Program Duration: 2 Months (Fast Track) or 3 Months (For Part Time Home Study-Distance Learning) (Certifications).

Admission Requirements: A high school diploma or an associate degree in general science or science (or global equivalent), Secondary degree (high school diploma, associate degree, or the global equivalent).

Other Requirements: Any Science related degree are needed to take this course, but have some extra skills using laptop/computer and internet, E-mail for communications will help.

Training Delivery: The course duration will comprise 30 hours of self-study home based or lecture based delivery. The 30 hours will be delivered in 4 sessions online distance learning based on given course materials. This 2 months or 3 months' course aims to provide an introduction to the Drone Repairing and Maintenance. The course will provide a basic understanding of the types of Drone Repairing and Maintenance systems etc.

Syllabus Outline

Serial No.	Syllabus component	Assignment TMA (Tutor Mark Assignment) or Case Study	Board Questions (OBS = Open Book System) Exam.	MCQ (Multiple Choice Questions) 10 Questions (each @ 2 marks)
	3 sessions or parts will count 7 hours each (3 parts/courses x 7 hours study each = 21 hours total) + Suggested Video Exercises Minimum 9 hours = Grand Total 30 Hours	45	35	20
1	Short Course- Professional Training in Drone Repair and Maintenance (DRM), Training Certificate in How to Build Drones – UAVs and ROVs, Trainings Certificate in Drone Assembling and UAEs and ROVs, Professional Drone Repair Technician.	<i>30 Hours (Time)</i>		
	<p><u>1. Drone Maintenance and Repair: A Simple Guide (Part-1):</u></p> <p>The Fundamentals of Drone Maintenance and Repair. In this (Part-1) overview, we'll cover:</p> <ul style="list-style-type: none"> • Understanding how each drone component works; • Implementing a pre and post-flight checklist; • A programme of routine drone maintenance; • Tips for drone repairs; • Troubleshooting when something goes wrong. <p><u>2. How to Fix a Drone? Tips and Solutions (Part-2):</u></p> <p>Intro for Repairing Your Drone at Home The most common problems and failures with drones Basic Principles of Drone Flight The Most Common Drone Problems and Solutions Quadcopter Does Not Take Off - What to do? Drone Maintenance and Repair Fix Your QuadCopter (Full Guide)</p> <p><u>3. Assembling or Building your own Drones – UAEs and ROVs:</u></p> <p>CHAPTER 1 A History of Drones 1 CHAPTER 2 Showcase of Cool DIY Drones 9 CHAPTER 3 Overview of Commercial Drones and Kits 21 CHAPTER 4 Building a Quadcopter I: Choosing an Airframe 35 CHAPTER 5 Rocket Drone Project 51</p>	<p>45</p> <p><i>7 Credit Hours Per Subject</i></p> <p><i>7 Credit Hours Per Subject</i></p>	35	20

	<p>CHAPTER 6 Building a Quadcopter II: Motors and Props 69 CHAPTER 7 Blimp Drone Project 81 CHAPTER 8 Building a Quadcopter III: Flight Control 103 CHAPTER 9 Drone Builder's Workbench 117 CHAPTER 10 Building a Quadcopter IV: Power Systems 127 CHAPTER 11 Waterborne Drone Project 147 CHAPTER 12 Building a Quadcopter V: Accessories 173 CHAPTER 13 Making a Rover 191 CHAPTER 14 Building a Quadcopter VI: Software 221</p> <p>References: A) https://www.dronetechplanet.com/how-to-fix-a-drone-tips-and-solutions/ B) https://coptrz.com/drone-maintenance-and-repair-a-simple-guide/</p> <p>Additional References: How to Repair Your Drone (A to Z)? A Guide for Everyone. https://www.remoteflyer.com/how-to-repair-your-drone-a-guide-for-everyone/ The Art of Drone Maintenance and Repair Part 1: https://medium.com/aerial-acuity/the-art-of-drone-maintenance-and-repair-part-1-74e12340f9a4 DIY Repairs and Maintenance for Your Drone: https://www.dummies.com/article/technology/electronics/drones/diy-repairs-and-maintenance-for-your-drone-142448 Operation Manual: https://www.bhphotovideo.com/lit_files/269277.pdf Understanding Various Components Used for Quadcopter https://robu.in/understanding-various-components-used-for-quadcopter-2/ Quadcopter Hardware Overview – Every Component Explained https://oscarliang.com/quadcopter-hardware-overview/</p> <p>FOLLOWING ADDITIONAL TASKS SHOULD HAVE TO DONE BY PARTICIPANTS OR STUDENTS:</p> <ol style="list-style-type: none"> Training in Drone Repairs and Maintenance Certification Test MCQ Questions answer practicing Training in Drone Repairs and Maintenance Test Board Questions/TMA (Tutor Mark Assignment) Training in Drone Repairs and Maintenance Case Studies <p>Exercises and projects</p> <p>Videos and recordings on Drone Repairing –A to Z:</p> <ol style="list-style-type: none"> Introduction to Drone (UAV) Repair and Building https://www.youtube.com/watch?v=AGFd3spKEms How to REPAIR drone MOTOR How to repair a not working drone How to change drone motor https://www.youtube.com/watch?v=io1Aa_Wzlck How to Repair a Defective Drone Drone Propeller not turning Drone Repair https://www.youtube.com/watch?v=hpYkWONBIec Give Your Drone the Longest Life Drone Maintenance Tips https://www.youtube.com/watch?v=H2JrtlbUnZo How to fix drone not fly and how to play drone. https://www.youtube.com/watch?v=MGajTgV_8sg How to Repair Drone Motor https://www.youtube.com/watch?v=nqUI7ChTcek 	<p><i>7 Credit Hours Per Subject</i></p>		
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	7. How to Replace Drone Propeller Motor https://www.youtube.com/watch?v=FGeQii9F59s 8. How to Fly E58 Drone with a Phone using Eachine FPV App. 9. Gravity Mode. Quick Manual for Beginners. https://www.youtube.com/watch?v=DuBYpnR4Bzo 10. Drone Repairing One Motor Not Running https://www.youtube.com/watch?v=gx0T0CPAQuc 11. Xiaomi Fimi A3 Drone Camera not work - Repair Tutorial / How to Disassembly https://www.youtube.com/watch?v=on7CvcW04pl 12. Restoration old broken Flycam remote control drones Retro Console Restore & Repair https://www.youtube.com/watch?v=5FUNelNGZKI 13. Drone Parts Unboxing Cheapest Drone parts https://www.youtube.com/watch?v=AGbeLkTxw0k 14. Corrupt Drone MP4/MOV Video Files? SIMPLE FIX https://www.youtube.com/watch?v=2rwOr0bTuvE 15. HOW TO REPAIR https://www.youtube.com/watch?v=dIVPfUAOkBE 16. FPV QUAD - BROKEN Motor not spinning or Esc? DIAGNOSE & REPAIR TUTORIAL https://www.youtube.com/watch?v=8VpTPVq1tBc			
	TOTAL HOURS REQUIRED TO BE COMPLETED FOR THE DRONE REPAIRS AND MAINTENANCE PROFESSIONAL CERTIFICATIONS = 3 sessions or parts will count 7 hours each (3 parts/courses x 7 hours study each = 21 hours total) + Suggested Video Exercises Minimum 9 hours = Grand Total 30 Hours			

CAREER AND SCOPE OF DRONE MECHANIC AND DRONE REPAIRING MAINTENANCE PROFESSIONAL?

Building a career as a professional drone mechanic has become more attractive as ever. Not only is there a growing market for professional drone services, but the selection of viable services continues to diversify and give more opportunities for aspiring newbies.

- Drone photographer and filmmaker. ...
- Precision agriculture surveyor. ...
- Drone 3D modeler. ...
- Power line inspector. ...
- Rooftop inspector. ...
- Search and rescue team member. ...
- Drone flight instructor. ...
- 5 Best Software Packages for Your Drone Mapping Needs, and so on.

COURSE MATERIAL

Besides using the traditional books GEPEA has also modernized the learning process by providing students with online portal consisting of –

- **Study Materials (Soft copies)** – PDF of books are provided to students making studies nomadic & convenient. GEPEA Department of Students Affairs will assign Study Materials via Email or other methods after registration and admission.
- The focal point of **GEPEA** study materials is enhancing Practical Education. **GEPEA** Kit provided to applicants is a world full of practical scenarios, explanation in terms of facts rather than theoretical phrases. Customized to be self-explanatory & easy to understand.
- **Faculty Guidance** – GEPEA panel of intellectuals guide students personally with regards to any query through email about any concept in the notes provided, being the author of the same.

EXAMINATION

GEPEA Professionals are given the privilege to answer exams from any examination center in the world along with the freedom to pick the exam schedule for the same, as time permits in the particular examination months of GEPEA. Students are allotted 2 modes of examinations – Home Based/Center Based.

- Question papers would be drafted by **GEPEA** panel of veteran professors which would be TMA (Tutor Mark Assignment), OBS (Open Book System) and MCQ study pattern. A single course will consist 100 marks based on these three pattern of exam types. In each program will consist a major (Thesis Research) course or theory in order to complete the respective Diploma Program.
- This unique & novel methodology teaches a student how to assess business situations and make decisions based upon those assessments, allowing students to display their potential.
- In case of home based/distance learning exams question paper would be emailed to the students, which they would have to answer & courier back to GEPEA office or GEPEA directed authority in the respectable exam slab.
- Candidate also has the option of appearing for Center Based Examination wherein they would have to visit one of the many GEPEA exam centers & complete answering the exam in the duration of 3 hours which wouldn't be an open book examination.

CASE STUDY METHOD & STUDY MATERIAL:

Today communication systems have advanced so much that it is much easier, convenient and quicker to gain expertise via online distance learning. GEPEA offer potential students the opportunity to study through an autonomous online distance learning program. This means that people who can't get traditional further education can still achieve what they want and get their qualifications through Online Distance Learning. That gives the opportunity for a much wider range of people to get the qualifications that they want. Today, thanks to technological advances, higher education is more readily available to those who want it.

GEPEA is an institute of excellence offering widest range of autonomous programmes in the field of Business Management and different Professional Training education. In response to the rapidly changing economic environment and the process of globalization, the Academy has made sustained efforts to bring an international perspective to all its wide range of areas and activities.

BENEFITS AND FETURES:

- (i) **Flexible Programs & Curriculum:** You can earn and study at the same time! From GEPEA International Curriculum, Flexibility is the biggest advantage of distance learning courses. This stands true especially if you are a working professional. Not everyone has the luxury of taking their own time to finish their studies. For those who had to take a break from studies to start working, such courses are a boon and provide the opportunity to pursue higher education.
- (ii) **Saves Time & Energy:** You save up a lot of time and energy on commuting. You can stay at any place and pursue a course that is available at GEPEA. Or you might be based out of a remote village or town which does not have enough options for higher studies. Distance learning courses eliminate these obstacles.
- (iii) **MCQ, Case Based Learning:** MCQ, A Case-based approach engages students in discussion of specific situations, typically real-world examples of African, Asian and International companies. Allowing the students to put their theoretical knowledge to practice.
- (iv) **Study at your own Pace:** Not everyone has the same pace of learning. Some students pick up things fast, others need time to grasp a concept. One of the biggest advantages of distance learning is that you can study at a pace that is comfortable for you.
- (v) **Saves Money:** These courses are almost always cheaper as compared to their on-campus counter-parts. You also cut down on the costs incurred while commuting etc.
- (vi) **Personal Fulfillment:** An MBA is the key to unlocking both a professionally and personally rewarding future. Education is the foundation upon which you can build lifelong business and personal achievements. The GEPEA MBA program is designed to enrich your personal life, as well as to keep you informed about a constantly changing industry.
- (vii) **Convenient:** You can submit your assignment with the click of a button or simply drop it off at a post-office! It's sometimes as simple as that!
- (viii) **24X7 Access to Study Material & fellow Students:** This is the best way to study if you are comfortable with internet and technology. You can access your study material online whenever you want and also clear doubts, exchange views and discuss with your virtual class-mates!
- (ix) **Study any Topic You Want:** Since you'd already have all your books/online study material with you, you can pick up any topic/chapter that interests you and tackle that first! This way your interest in the subject is sustained.
- (x) **Higher Level of Self-Confidence:** The knowledge gained through our Correspondence MBA program will enhance your effectiveness in your current position and help define your future career path. It will sharpen your skills in critical business areas, giving you the self-confidence you need to become a leader in your profession.
- (xi) **Specialization:** We provide more than 80 specializations which allow students to gain additional knowledge and background on specific business topics.

ACCREDITATIONS AND RECOGNITIONS:

ITQSM Accredited & International Partnered Professional Academies.

GEPEA has proudly claimed the Excellence in Online Distance Learning Award presented by its Governing Body Really Matters as a token of appreciation for providing top notch education to professionals globally. This solely proclaims that GEPEA is one of the best Professional Academy in the field of online distance learning.

PROFESSIONAL FACULTIES:

GEPEA Faculty members are highly professional, qualified & experienced. Professors provide substantial assistance through 24*7 web support. Each & every query regarding studies, assignments, cases, projects, research are resolved on time & responded with clear, relevant answers on par with syllabus. They update themselves from time to time about the changing market scenario & syllabus. Thus working professionals have chance to get resourceful information by interacting with professors through web-support from time to time. Timely communication & assistance is key to our successful association with our students & our professors believe in same.

GEPEA (Global Educational & Professional Excellence Academy)

*In case any query, please feel free to contact us via E-Mail:
gepea.official@gmail.com , office@gepea.eu or visit Website: www.gepea.eu or
www.gepea.education*