The complete 3D Airmanship™ Program is 60 + videos each 5-10 min addressing these topics
Also includes Gov't Knowledge Topics required for Basic, Advanced, Level 1 Complex, Part 107 and 108

Module 1: "Wake-Up Call" (Foundation)
Goal: Realizing what you don't know.

1. How Lethal is Your Drone
2. Close Encounters
3. 1KWonders Miniaturization
4. How Far can you see YOUR drone
5. Zen & the Art of Drone Happiness (10vids)
6. The COST - Angst, Incidents & Crashes

Module 2: Building Awareness
Goal: Broader awareness of self & limits

1. Before We Start
2. Self-Awareness Psychology
3. Situational Awareness
4. Awareness Exercise Visualization
5. ATTITUDE (the most important part)
6. Your AQ Assessment
7. Your Feedback Loops – The Debrief
8. Of Chains and Cheese
9. Weather or NOT Personal WX Limits
10. Subconscious Wind and Sun

Module 3: Prepared to Fly
Goal: ensuring your are fully ready to fly

1. The Mission Briefing Process
2. Mission Planning Briefing Guide
3. Risk Assessment for Mission Planning
4. Mission Planning Example – CLASS C
5. Mission Planning - BVLOS
6. The "Debrief" Your Feedback System
7. Standard Operating Procedures (SOP)
8. Standard Voice Procedure
9. Customizing Checklists (Human Factors)
10. Company Documentation Standards

Module 4: Fit-to-Fly
Goal: Prepared for anything – No Surprises

1. Precision Flying vs Proficiency
2. Rest, Diet, and Exercise
3. Exercise Triggers
4. Nutrition, hydration
5. Clothing - Cold/Hot/wet/arid weather ops
6. Fit-To-Fly in 30 Seconds
7. Physical and Mental Fitness for any mission
8. Human Factors, Knowing your LIMITS

Module 5: The Aviator's Tool Box
Goal: Better toolbox – Better Pilot

1. Regulatory Plain Simple & Complex
2. Level 1 Complex Legal issues
3. Compare Regs CAN Pt IX vs Pt107
4. Hand Launch/Recovery
5. Night Ops 1&2
6. LAANC & NavDrone and Wilco APPs
7. Google Recce (Street View)
8. Test Planning and Test Procedures
9. Field Kit & Spares
10. Commercial Planning Tools
11. Flight Records & Productivity Tools
12. Systems Design and Maintenance

Module 6: Inoculated for Stress
Goal: Make Emergency actions (IAs) routine

1. Recognizing and Dealing with STRESS
2. Mission Focus vs FULL Focus
3. Subtle Signs of Losing Focus
4. Flying with General Aviation 1
5. Flying with General Aviation 2
6. Make it a TEST FLIGHT
7. Flying in Controlled Airspace
8. Emergencies & Initial Actions
9. Improving your C.O.R.E.

Module 7: Personal Development & Leadership
Goal: Consistently positive personal development

1. Career Planning – Self Determination
2. Reading List - Book a Minute
3. Personal Accountability
4. CRM 10 Commandments
5. Dealing with Discord
6. Subconscious Problem-Solving
7. Personal Feedback for (Goal Setting)
8. 3 D Association
9. Open Communications

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Candidates are awarded this Shoulder Badge

Transport Canada and FAA - Core Syllabus

1. Air Law, Air Traffic Rules and Procedures

- Airspace types, restrictions, and classes
- Notice to Airmen (NOTAMs) and navigation aids
- General Canadian Aviation Regulations (CARs) for RPAS
- Permissions and documentation for complex missions

2. RPAS Airframes, Powerplants, Propulsion, and Systems

- Lithium and other battery management, transport regulations
- Fuel types, hazards, handling, and storage
- Autopilot systems, limitations, faults, programming, autonomy levels
- Propulsion systems, engine types, failure responses

3. RPAS Instruments and Equipment

- Altimeters, barometric and GPS altitude
- Airspeed indicator, difference between airspeed and ground speed
- Inertial measurement unit (IMU), effects of faults or lack of calibration

4. Detect and Avoid (DAA) Systems

- DAA principles (Risk Ratio, ARC)
- Sensor types, planning avoidance maneuvers
- Strengths and weaknesses of vision-based detection systems, radar functionality and limits

5. Meteorology

- Properties of the atmosphere, air density, Standard Atmosphere
- Pressure systems, density altitude, impact on RPAS performance
- Moisture, fog, icing, weather hazards, surface-based weather layers
- Turbulence, wind, urban airflow impacts, fronts and aircraft icing
- Thunderstorm avoidance, interpretation of pilot weather services

6. Theory of Flight and Stability

- Principles of lift, thrust, propeller pitch, effect of operating weight
- Stability, centre of gravity, and RPA behaviour

7. Communications and Crewmember Radios

- VHF radio operation requirements
- Communications in uncontrolled airspace
- Communication equipment for planned operation
- Use of radio, phone, visual signals; factors affecting communication reliability

The FAA Part 107 certification covers similar core knowledge required for commercial drone operations in the U.S. The key topics required for licensing include:

- FAA regulations specifically for small unmanned aircraft systems (sUAS), including Part 107 rules on operation, limitations, and privileges.
- Airspace classification and operating requirements, including understanding controlled and uncontrolled airspace and airspace authorization processes.
- Weather effects on drone performance and how to interpret weather information relevant to flight.
- Drone loading and performance principles.
- Emergency procedures during drone operations.
- Crew resource management concepts.
- Maintenance and preflight inspection procedures.
- Operational considerations such as flying at night (with proper training), visual line of sight rules, and flight restrictions (e.g., altitude limits, no flying over people without authorization).
- Knowledge of registration and Remote ID requirements.
- Safety and operational best practices, including handling emergencies.

FAA Part 108 is a forthcoming rule intended to regulate advanced operations like Beyond Visual Line of Sight (BVLOS) flights, with new certification and training requirements expected, but it is not yet existing as of 2025.