**Syllabus Number S-IA-110412-01**

**IA Refresher Training - Technical Subjects**

This syllabus is designed to provide information for IA Course Providers in the development of Inspection Authorization (IA) Refresher Training to be submitted for FAA acceptance.

The presentation must:

1. Consist of at least one hour of instruction (50 minutes with a break is acceptable), and
2. Cover in sufficient detail one or more of the subject areas shown below, such that maintenance personnel attending the course or event can be assumed, by incorporating the subject matter into their maintenance habits, to have mitigated a potential accident/incident.

These subject areas are related to Title 14 CFR Part 147, Appendix B, C, and D, and the Aviation Mechanic Practical Test Standards. This material further breaks down the subject areas into topic elements to be used for course development. *The IA Course Provider must comply with the latest revision of FAA Order 8900.1 Volume 3, Chapter 56 and obtain an FAA acceptance number.*

**Training of the following nature cannot be utilized for IA Training credit:**

1. Training primarily containing commercial endorsement or serving as an advertisement for a particular product or service,
2. Manufacturer’s or air carrier training primarily designed for pilots, or
3. Familiarization courses, such as air carrier or air agency maintenance employee orientation training, that deal with a majority of non-technical subjects, such as “non-maintenance” procedures, company manuals, administrative procedures, etc.

**Method(s) Used to Present the Course** (Check as many as apply)

Lecture Presentation [ ]

PowerPoint Presentation [ ]

Webinar [ ]

Computer-Based Training [ ]

DVD Presentation [ ]

Web-based Presentation [ ]

Other: Specify Below [ ]

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| **General Subject Areas14 CFR Part 147, Appendix B** | **Describe briefly where this Subject is covered in your Course** | **Course Time Allocated for this Subject** |
| *Example Subject B* | *Chapter 2, Section 2-4, Page 7, Slides 14-28, 4th Lecture, etc.* | *2 hours* |
| Aircraft Drawings  |  |  |
| Aviation Mechanic Privileges and Limitations  |  |  |
| Basic Electricity  |  |  |
| Basic Physics (as applicable to Aviation Areas)  |  |  |
| Cleaning and Corrosion Control  |  |  |
| Fluid Lines and Fittings  |  |  |
| Ground Handling and Servicing  |  |  |
| Maintenance Forms and Records  |  |  |
| Maintenance Publications  |  |  |
| Material and Processes  |  |  |
| Mathematics (as applicable to Aviation Areas)  |  |  |
| Weight and Balance  |  |  |

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| **Airframe Subject Areas14 CFR Part 147, Appendix C** | **Describe briefly where this Subject is covered in your Course** | **Course Time Allocated for this Subject** |
| *Example Subject C* | *Chapter 2, Section 2-4, Page 7, Slides 14-28, 4th Lecture, etc.* | *2 hour* |
| *Aircraft Covering*  |  |  |
| *Aircraft Electrical Systems*  |  |  |
| *Aircraft Finishes Wood Structures*  |  |  |
| *Aircraft Fuel Systems*  |  |  |
| Aircraft Instrument Systems  |  |  |
| Aircraft Landing Gear Systems  |  |  |
| Airframe Inspection  |  |  |
| Assembly and Rigging  |  |  |
| Cabin Atmosphere Control Systems  |  |  |
| Communication and Navigation Systems  |  |  |
| Fire Protection Systems  |  |  |
| Hydraulic and Pneumatic Power Systems  |  |  |
| Ice and Rain Control Systems  |  |  |
| Position and Warning System  |  |  |
| Sheet Metal and Non-Metallic Structures  |  |  |
| Welding  |  |  |

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| **Powerplant Subject Areas14 CFR Part 147, Appendix D** | **Describe briefly where this Subject is covered in your Course** | **Course Time Allocated for this Subject** |
| *Example Subject D* | *Chapter 2, Section 2-4, Page 7, Slides 14-28, 4th Lecture, etc.* | *2 hours* |
| Engine Cooling Systems  |  |  |
| Engine Electrical Systems  |  |  |
| Engine Exhaust and Reverser Systems  |  |  |
| Engine Fire Protection Systems  |  |  |
| Engine Fuel Systems  |  |  |
| Engine Inspection  |  |  |
| Engine Instrument Systems  |  |  |
| Fuel Metering Systems  |  |  |
| Ignition and Starting Systems  |  |  |
| Induction and Engine Airflow Systems  |  |  |
| Lubrication Systems  |  |  |
| Propellers  |  |  |
| Reciprocating Engines  |  |  |
| Turbine Engines  |  |  |
| Turbine Powered APU’s |  |  |

* **Course Presenters/Instructors for this Course** (Hit “Tab” in the last column to add additional rows)

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