**Appendix D**

**Inspector Training Profiles**

**Suggested Flight Standards Directorate Inspector Training Profiles**

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| --- | --- | --- | --- | --- | --- |
| CAA Course Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **INITIAL TRAINING FOR ALL AVIATION SAFETY INSPECTORS** | | | | |
|  | New Hire Employment Orientation (Benefits, Ethics, Conduct, Discipline, Travel, Security, Unions, etc.) | General Admin/Technical | X | X | X |
|  | Intro to ICAO and CAA Overview | General Admin/Technical | X | X | X |
|  | Aircraft Accident Investigation | Resolution of Safety Issues | X | X | X |
|  | Compliance and Enforcement Procedures | Resolution of Safety Issues | X | X | X |
|  | Crew Resource Management Introduction | Certification - AOC | X |  | X |
| 18700 - ICAO TRAINAIR STP | ICAO GSI Air Operator Certification - OPS | Certification - AOC | X |  | X |
| 18701 - ICAO TRAINAIR STP | ICAO GSI Air Operator Certification and AMO Certification - Airworthiness | Certification - AOC and AMO |  | X | X |
| 18710 - ICAO TRAINAIR STP | ICAO GSI Personnel Licensing | Personnel Licensing/Surveillance/Resolution of Safety Issues | X | X | X |
|  | Ground De-icing/Anti-icing for Airworthiness Inspectors | Certification - AOC |  | X | X |
|  | Ground De-icing/Anti-icing for Operations Inspectors | Certification - AOC | X |  | X |
|  | Avionic Systems | Avionics | X | X | X |
|  | Interpersonal Competencies for Inspectors | General Admin/Technical | X | X | X |
|  | Introduction to Authorizing Documents | General Admin/Technical | X | X | X |
|  | Introduction to Manual Management | General Admin/Technical | X | X | X |
|  | Work Tracking System Note: BAGASOO should substitute its version of this course | Surveillance | X | X | X |
|  | Air Cargo Operations | Certification | X | X | X |
|  | End-Route Inspection Procedures | Certification - AOC | X | X | X |
|  | Introduction to Air Carrier Maintenance Programs | Certification |  | X | X |
|  | General Maintenance Manual | Certification - AOC |  | X | X |

**Suggested Flight Standards Directorate Inspector Training Profiles**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Curse Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **INITIAL TRAINING FOR ALL AVIATION SAFETY INSPECTORS** | | | | |
|  | Minimum Equipment List (MEL)/Configuration Deviation List (CDL) | Certification - AOC |  | X | X |
|  | Airworthiness Directives (AD) Management | Airworthiness |  | X | X |
|  | Personnel Training Programs | Certification - AOC | X |  | x |
|  | Airmen/Crewmember Checks and Qualifications | Certification - AOC | X |  | X |
|  | Pilot Operating Limitations/Recent Experience | Certification - AOC | X |  | X |
|  | Aircraft Performance Operating Limits | Certification - AOC | X |  | X |
|  | Dispatch/Flight Release | Certification - AOC | X |  | X |
|  | Load Manifest and Weight and Balance Control | Certification - AOC | X |  | X |
|  | Operational Control | Certification - AOC | X |  | X |
|  | Overview of Safety Management Systems | General Admin/Technical | X | X | X |
|  | Maintenance and Inspection Programs | Certification - AOC |  | X | X |
|  | Calibrated Tools and Test Equipment | Certification - AOC |  | X | X |
|  | Parts Pooling and Parts Borrowing | Certification - AOC |  | X | X |
|  | Short Term Escalation | Certification - AOC |  | X | X |
|  | Aircraft Fuelling | Certification - AOC |  | X | X |
|  | Maintenance Facilities and Line Stations | Certification - AOC |  | X | X |
|  | Reduced Vertical Separation Minimums (RVSM) and Lower Landing Minimums | Certification - AOC |  | X | X |
|  | Engineering/Major Repairs and Alterations | Airworthiness |  | X | X |
|  | Weight and Balance | Certification - AOC |  | X | X |
|  | Records and Reporting Systems | Certification - AOC |  | X | X |
|  | Maintenance Training Programs | Certification - AOC |  | X | X |
|  | Maintenance Personnel and Certification Requirements | Certification - AOC |  | X | X |
|  | Introduction to Extended Operations (ETOPS) Maintenance Programs | Certification - AOC |  | X | X |
|  | Airmen Duties & Flight Deck Procedures (AC OPS) | Certification - AOC | X |  | X |
|  | Routes, Airports, and Areas of Operation | Certification - AOC | X |  | X |
|  | Routes, Airports, and Areas of Operation (AC OPS) | Certification - AOC | X |  | X |
|  | Flight, Duty, & Rest Requirements ( AC OPS) | Certification - AOC | X |  | X |
|  | Cabin Safety Programs (AC OPS) | Certification - AOC | X |  | X |

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CAA Course Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **INITIAL TRAINING FOR ALL AVIATION SAFETY INSPECTORS** | | | | |
|  | Flight Simulator Training Device Qualification | Certification - AOC | X |  | X |
|  | Aircrew Designated Examiner Programs | Certification - AOC | X |  | X |
|  | Hazardous Material Training | Certification - AOC | X |  | X |
|  | Reduced Vertical Separation Minimums (RVSM) for Air Carrier Operations Inspectors | Certification - AOC | X |  | X |
|  | Part 119 Management Personnel | Certification - AOC | X |  | X |
|  | Air Carrier Ops ETOPS Advanced WBT | Certification - AOC | X |  | X |
|  | Compliance and Enforcement Introduction | Resolution of Safety Issues | X | X | X |
|  | Introduction to Exemptions, Deviations, and Waivers or Authorizations | General Admin/Technical | X | X | X |
| ICAO TRAINAIR STP | Safety Management | General Admin/Technical | X | X | X |
|  | **HELICOPTER SPECIFIC (NON EXTERNAL LOAD)** | | | | |
|  | Introduction to Basic Loads | Certification - AOC | X | X | X |
|  | Heliport Evaluation | Certification - AOC | X | X |  |
|  | General Aviation Operations Helicopter Indoctrination | Certification - AOC | X | X | X |
|  | Helicopter VFR/IFR Refresher | Certification - AOC | X |  | X |
|  | Aircraft Structural Loads: Requirements, Analysis, Testing and Certification -- University of Kansas course | Certification - AOC | X | X | X |
|  | **AIR OPERATOR INSPECTOR SUBJECTS - DISPATCH SPECIALTY** | | | | |
|  | Aircraft Dispatcher Functions | Air Operations | X |  |  |
|  | **AIR OPERATOR INSPECTOR SUBJECTS - SIMULATOR SPECIALTY** | | | | |
|  | Flight Simulation Training Device Evaluation\* | Air Operators/Personnel Licensing | X |  | X |
|  | Advanced Flight Simulation Training Device Evaluation\* | Air Operators/Personnel Licensing | X |  | X |
|  | **INSPECTOR SUBJECTS - AERIAL WORK/PUBLIC USE** | | | | |
|  | External Load and Agricultural Operations | Aerial Work | X | X |  |
|  | Agricultural Aircraft Operator Certification and Surveillance | Aerial Work | X | X |  |

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| --- | --- | --- | --- | --- | --- |
| CAA Course Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **INSPECTOR SUBJECTS - AERIAL WORK/PUBLIC USE** | | | | |
|  | Air Shows Ground and Air Operations - contractor provided to FAA | Aerial Work | X |  |  |
|  | Air Ambulance Operations Oversight (AAOO) | Air Operations |  | X |  |
|  | Air Tour Operations | Air Operations | X | X |  |
|  | Public Aircraft Operations | Public Operations | X | X |  |
|  | Approve a Rotorcraft Class D training Program | Aerial Work | X |  |  |
|  | **INSPECTOR SUBJECTS - JOB FUNCTION SPECIFIC/ADVANCED** | | | | |
| Commercial Vender | Inspector flying/type rating currency - initial | Certification/PEL | X |  | X |
| Commercial Vender | Inspector maintenance aircraft type training - initial | Certification/AMO/Airworthiness/PEL |  | X | X |
|  | System Safety | General Admin/Technical | X | X | X |
| Commercial Vendor | Emergency Evacuation and Survival Equipment\* | Air Operations | X | X |  |
|  | Surveillance Parts 91/121/125/135 Operator | Surveillance | X | X | X |
|  | Advanced Aircraft Familiarization | Airworthiness | X |  | X |
|  | Operator Contract Training Oversight | Surveillance | X | X | X |
|  | Night Vision Imaging System (NVIS) and Night Vision Goggle (NVG) initial pilot training | Air Operations |  | X |  |
|  | Oceanic and International Operations\* | Air Operations | X | X |  |
| Commercial Vendor | Night Vision Goggle (NVG) initial pilot training | Air Operations | X |  | X |
|  | RVSM for Operations Inspectors of General Aviation Operators | Air Operations | X |  |  |
|  | General Aviation Aircraft Performance Programs | Air Operations | X |  |  |
|  | How to Conduct a Part 129 Ramp Inspection | Foreign Operations | X | X |  |
|  | RVSM for Airworthiness Inspectors of General Aviation Operators | Air Operations |  | X |  |
|  | Overview of Oceanic and International Operations | Air Operations | X | X |  |
|  | CAT I, II, III Operations | Air Operations | X |  |  |
|  | Introduction to Special Navigation Authorizations | Air Operations | X |  |  |

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| --- | --- | --- | --- | --- | --- |
| CAA Course Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **CABIN SAFETY SPECIALTY** | | | | |
|  | Introduction To Cabin Safety Programs | Air Operations |  |  |  |
|  | Aviation Land and Water Survival School | Air Operations | X | X |  |
|  | Cabin Safety Programs (AC OPS) | Air Operations | X |  |  |
|  | Survival Factors in Aviation Accidents | Air Operations |  |  |  |
|  | Aircraft Cabin Safety Aircraft Investigation | Resolution of Safety Issues | X | X |  |
|  | **AIRWORTHINESS INSPECTOR SUBJECT - JOB FUNCTION SPECIFIC/ADVANCED** | | | | |
|  | Flight Standards Air Carrier Evaluation Program Orientation | Airworthiness |  | X |  |
|  | Suspected Unapproved Parts | Surveillance - Air Operator |  | X |  |
| Commercial Vendor | Aircraft Alterations and Repairs | Airworthiness |  | X |  |
|  | Non-Destructive Inspection and Evaluation | Airworthiness |  | X |  |
| Commercial Vendor | Aging Aircraft - Corrosion Prevention and Control Program - Outside Provider | Airworthiness |  | X |  |
|  | Contract Maintenance And Maintenance Providers Oversight | Surveillance - Air Operator |  | X |  |
|  | Introduction to Air Carrier Maintenance Organization | Airworthiness |  | X |  |
|  | Engine Condition Monitoring | Surveillance - Air Operator |  | X |  |
|  | General Aviation Aircraft Maintenance and Inspection Programs | Airworthiness |  | X |  |
|  | General Aviation Avionics and Avionics Test Equipment | Airworthiness |  | X |  |
|  | General Aviation Operator Airworthiness Reporting for Airworthiness Inspectors | Airworthiness |  | X |  |
|  | Aircraft Airworthiness for General Aviation Inspectors | Airworthiness |  | X |  |
|  | General Aviation Operator Safety Program for Airworthiness Inspectors | Airworthiness |  | X |  |
|  | Introduction to Continuing Analysis and Surveillance Systems | Airworthiness |  | X |  |
| Commercial vendor | Parachute Rigger Certification | Airworthiness |  | X |  |
|  | **AVIONICS SPECIALTY** | | | | |
|  | Automatic Flight Controls (WBT) | Avionics |  | X | X |
|  | NexGen Advanced Navigation (WBT) | Air Operations | X | X | X |

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| CAA Course Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **AVIONICS SPECIALTY** | | | | |
| Commercial Vendor | Traffic Alert and Collision Avoidance Systems (contractor provided to FAA) | Air Operations | X | X | X |
| Commercial Vendor | Enhanced Ground Proximity Terrain Avoidance Warning Systems - contract provider to FAA | Air Operations | X | X | X |
|  | Elements of Avionics Major Alterations | Air Operations |  | X |  |
|  | **PERSONNEL LICENSING INSPECTOR SUBJECT - EXAMINER SPECIALTY** | | | | |
| FY16 ICAO GSI - TRAINAIR STP TBD | ICAO GSI Designated Examiners | Personnel Licensing | X | X | X |
|  | **PERSONNEL LICENSING INSPECTOR SUBJECT - TRAINING ORGANIZATION SPECIALTY** | | | | |
| FY-17 -18718 - ICAO GSI TRAINAIR STP TBD | ICAO GSI Approved Training Organization (GSI) | ATO/Surveillance/Resolution of Safety Issues | X | X | X |
|  | **RECURRENT TRAINING EXAMPLES** | | | | |
| Commercial Vender | Inspector flying/type rating recurrent | Certification/PEL | X |  | X |
| Commercial Vender | Maintenance aircraft and/or technology training recurrent | Certification/AMO/Airworthiness/PEL |  | X | X |
|  | CRM Recurrent for Operations Inspectors | Certification - AOC | X |  |  |
|  | Air Carrier Operations Inspector Job Functions (Recurrent) | Air Operations | X |  |  |
|  | Compliance and Enforcement Recurrent Training | Resolution of Safety Issues | X | X | X |
| Commercial Vendor | Night Vision Goggle (NVG) Recurrent Pilot Training | Air Operations | X |  |  |
|  | Cockpit and Cabin End-route Training Video | Air Operations | X | X | X |
|  | GPS Refresher | Air Operations | X |  |  |
|  | **JOB SPECIFIC SUBJECTS** |  |  |  |  |
|  | Overview AFS On-The-Job Training (OJT) Techniques | General Admin/Technical | X | X | X |
|  | AFS OJT Techniques | General Admin/Technical | X | X | X |

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| CAA Course Number | CAA Training Course | Subject Area | Operations | Airworthiness/ Maintenance | PEL - OPS/MX |
|  | **JOB SPECIFIC SUBJECTS** | | | | |
|  | Briefing and Presentation Techniques (Web course 05111 is prerequisite) | General Admin/Technical | X | X |  |
|  | Instructor Effectiveness Training | General Admin/Technical | X | X |  |
|  | Principal Inspector Fundamentals (Course 22006 System Safety is prerequisite) | General Admin/Technical | X | X |  |
|  | **ACCIDENT INVESTIGATION COURSES** |  |  |  |  |
|  | Advanced Aircraft Accident Investigation\* | Resolution of Safety Issues | X | X | X |
|  | Human Factors in Aircraft Accident Investigation\* | Resolution of Safety Issues | X | X | X |
|  | Rotorcraft Aircraft Accident Investigation\* | Resolution of Safety Issues | X | X | X |
|  | Turbine Engine Accident Investigation | Resolution of Safety Issues | X | X | X |
|  | Human Factors Principles | Resolution of Safety Issues | X | X | X |
|  | Aviation Safety Program Manager | Resolution of Safety Issues | X |  | X |
|  | Advanced Rotorcraft Accident Investigation | Resolution of Safety Issues | X | X | X |
|  | Experimental Aircraft Accident Investigation\* | Resolution of Safety Issues | X | X | X |
|  | Human Factors in Aviation maintenance - | Resolution of Safety Issues |  | X | X |
|  | Advanced General Aviation Accident Investigation | Resolution of Safety Issues | X |  | X |
|  | Advanced Commercial Aviation Accident Investigation | Resolution of Safety Issues | X |  | X |