INTRODUCTION

Of all the parts that make up FAA regulations in Chapter 1 of Title 14, Aeronautics and Space in the Code of Federal Regulations, only one part speaks solely to mechanics.

Part 43 is that rule.

It sets the requirements for what kinds of U.S. registered aircraft mechanics can work on, who can work on the aircraft, and who can sign off the aircraft’s logbook.

It also defines the standards for the work which is performed, and record keeping requirements.

Part 43, Maintenance, Preventive Maintenance, Rebuilding and Alteration, is one of the three core regulations or foundation stones that set the standards for the U.S. aviation industry.

The other two are part 21, Certification Procedures for Products and Parts, and part 91 General Operating and Flight Rules.

These three rules are identified on the FAA Form 8100-2 Standard Airworthiness Certificate.

The purpose of part 43 is to ensure that an aircraft is "airworthy" after work has been performed.

Part 145 sets forth safety standards necessary to inspect and maintain aircraft and aircraft parts. These safety standards ultimately benefit the maintenance personnel, passengers, and flight crew. For example, Subpart C Housing and Facilities Requirements are designed to keep maintenance personnel safe and provide a safe working environment, while Subpart E Operating Rules result in a safe aircraft that can be used by the flight crews to provide a safe and efficient mode of transportation.

This training course describes in detail 14 CFR part 43 and part 145 and the relationship to U.S. air carriers for a foreign certificated repair station located outside the United States in a country that does not have a Bilateral Aviation Safety Agreement with the FAA.
What is the Benefit of this Training - What will I learn?


b) An understanding of the term "Airworthy" and relevant Airworthiness Limitations, Critical Design Configuration Control Limitations (CDCCL).

c) An understanding of the differences between approved parts, accepted parts, OEM and PMA parts.

d) Knowledge of the rules that must be followed to change an aviation products Type Design.

e) An in-depth understanding of how to ensure compliance to Repair Station housing and facilities requirements.

f) Knowledge of inspection personnel and return to service personnel responsibilities and training and qualification requirements.

g) Best practices to ensure that maintenance release and return to service documents comply with FAA requirements.

h) The relationship between Part 145 and Part 43 and the linkage to Part 121 responsibilities.

i) Understanding of the procedures required to be contained in a Repair Station Manual and Quality Control Manual.

Why Should I choose SAS for the training?

Sofema Aviation Services a Regulatory training and consulting company with 45 years commercial aviation experience and 10 years operational experience. Since we started we have provided certificates to approx.15,000 delegates we have grown for 2 primary reasons!

The first is that we are professional and we listen to our customers. Please visit our download area as an example of how we engage with our customer.

The second is not only the fact that our prices are far more cost effective than our competitors it is that our discount program leaves all the others way behind – please do not take our word for it check it out!

Because our courses are written by experts who have managed several FAA Certificated Foreign Repair Stations in an operations capacity, and in a Quality & Safety role as Chief Inspector / Quality Manager. This allows the instructor to draw on his knowledge and relate to his experiences to deliver an effective training session beneficial for the delegates.

At Sofema Aviation Services our focus is on accepting that compliance with Civil Aviation Safety Regulations is in fact minimum compliance. Interpreting the regulations in a way which enables the development and optimization of the business is where we should see opportunities to drive efficiencies, and cost savings.

Detailed Content / Topics - The following Subjects will be addressed

- Terms & Definitions
- History of the FAA
- Introduction and Structure of the FARs
- Understanding Airworthiness
- 14 CFR Part 145 Framework
- 14 CFR Part 145 Subpart A – General

145.1 Applicability
145.3 Definition of terms
145.5 Certificate and operations specifications requirements
145.12 Repair station records: Falsification, reproduction, alteration, or omission

- 14 CFR Part 145 Subpart B – Certification

145.51 Application for certificate
145.53 Issue of certificate
145.55 Duration and renewal of certificate
145.57 Amendment to or transfer of certificate
145.59 Ratings
145.61 Limited ratings
- 14 CFR Part 145 Subpart C – Housing, Facilities, Equipment, Materials, and Data

145.101 General
145.103 Housing and facilities requirements
145.105 Change of location, housing, or facilities
145.107 Satellite repair stations
145.109 Equipment, materials, and data requirements

- 14 CFR part 145 Subpart D – Personnel

145.151 Personnel requirements
145.153 Supervisory personnel requirements
145.155 Inspection personnel requirements
145.157 Personnel authorized to approve an article for return to service
145.159 Recommendation of a person for certification as a repairman
145.160 Employment of former FAA employees
145.151 Personnel requirements
145.153 Supervisory personnel requirements
145.155 Inspection personnel requirements

- 14 CFR Part 145 Subpart E – Operating Rules

145.201 Privileges and limitations of certificate
145.203 Work performed at another location
145.205 Maintenance, preventive maintenance, and alterations performed for certificate holders under parts 121, 125, and 135, and for foreign air carriers or foreign persons operating a U.S.-registered aircraft in common carriage under part 129
145.206 Notification of hazardous materials authorizations
145.207 Repair station manual
145.209 Repair station manual contents
145.211 Quality control system
145.213 Inspection of maintenance, preventive maintenance, or alterations
145.215 Capability list
145.217 Contract maintenance
Detailed Content / Topics - The following Subjects will be addressed

145.219 Recordkeeping
145.221 Service difficulty reports
145.223 FAA inspections

- 14 CFR Part 43 Maintenance, Preventive Maintenance, Rebuilding and Alteration

Applicability of Part 43
Who can Work on an Aircraft?
Who can Sign-off Work Performed on an Aircraft?
Performance Rules
Recordkeeping
Part 43 Appendices

Target groups

Quality Managers; Quality Engineers; Inspection Personnel; Return to Service Personnel; Safety Managers / Personnel; Maintenance Managers / Supervisors / Mechanics / Technicians; Planning Personnel; Technical Services Personnel; Supply Chain Personnel; Stores Personnel from the following organizations:

Operators/Air Carriers; Repair Stations/Approved Maintenance Organizations; Organizations seeking 14 CFR Part 145 approval; Staff from National Aviation Authorities.

Pre-requisites

A background in an aviation environment.

Learning Objectives

By the end of this course, delegates will be able to:

- Secure knowledge of the key components of FAA FAR Part 145 and FAR Part 43.
Learning Objectives

- Provide examples as to the 'know how' as well as the 'know what' by looking at a practical perspective of FAA FAR Part 145 and FAR Part 43.
- Implement FAA FAR Part 145 within an Organization.
- Understand the interface between FAA FAR Part 145 and Part 43.
- Provide a regulatory and industry perspective for staff involved in FAA FAR 145 in accordance with the maintenance rules of FAR Part 43.

What do People Say about Sofema Aviation Services Training?

"The course exceeded my expectations."
"Everything was in appropriate timing and in good climate."
"Maximum points for the instructor’s effort and explanation from me."
"The instructor provided enough room for all the questions to be asked"
"We received a lot of additional information to make things clearer."

Duration

2 days – Each training day will commence at 09.00 and finish at 17:00 with appropriate refreshment breaks.