

## Element Performance Inspection (EPI)

### 3.2.2 Flight / Load Manifest / Weight and Balance Control (OP)

**Purpose of this Element (Air Carrier's responsibility):**

To operate the aircraft safely within the Weight and Balance Limitations of the Aircraft Flight Manual.

**Objective (FAA responsibility):**

To determine if the Air Carrier adheres to its approved Weight and Balance program.

**Specific Instructions for this EPI:**

To accomplish the EPI, the inspector should be familiar with the Weight and Balance limitations contained in the Aircraft Flight Manual.

Related EPIs:

- 3.1.8 Carriage of Cargo (OP)
- 3.2.1 Dispatch / Flight Release (OP)
- 3.2.3 MEL / CDL Procedures (OP)
- 4.2.6 Training of Station Personnel (OP)
- 5.1.5 Station Facilities (OP)

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*To meet this objective, the inspector will accomplish the following tasks (at the inspection locations where applicable):*

1. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this EPI.
2. Review the associated SAI, with emphasis on the Controls Attribute section.
3. Review the Manuals and software related to the Weight and Balance program.
4. Interview the personnel responsible for Weight and Balance preparation.
5. Observe and assess the results of the Weight and Balance program.
6. Review and assess required Weight and Balance records.

*To meet this objective, the inspector will answer the following questions:*

1. Were the following performance measures met:

<i>1.1 The weight and balance was accurately computed and within limits.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<b>If no, explain:</b>
<i>1.2 The aircraft was loaded in accordance with the load plan.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<b>If no, explain:</b>
<i>1.3 The weight and balance information was distributed in accordance with the Air Carrier's approved Weight and Balance program.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<b>If no, explain:</b>
<i>1.4 Records were maintained in accordance with the Air Carrier's approved Weight and Balance program.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<b>If no, explain:</b>
2. Were the procedures for the Weight and Balance program followed?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<b>If no, explain:</b>
3. Were controls for the Weight and Balance program followed?	<input type="checkbox"/> YES <input type="checkbox"/> NO	<b>If no, explain:</b>

4. <Deleted>

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#### SUPPLEMENTAL INFORMATION

**SRRs:**

- 14 CFR 121.198 (c), “Cargo service airplanes: increased zero fuel and landing weights.”
- 14 CFR 121.665, “Load manifest.”
- 14 CFR 121.693 (a-e), “Load manifest: All certificate holders.”
- 14 CFR 121.695 (a, b), “Disposition of load manifest, dispatch release, and flight plans: Domestic and flag operations.”
- 14 CFR 121.697 (a-e), “Disposition of load manifest, flight release, and flight plans: Supplemental operations.”

**Other CFRs and FAA Guidance:**

- 14 CFR 119.5 (g), “Certifications, authorizations, and prohibitions.”
- FAA Order 8300.10, App. 6, “National Aviation Safety Inspection Program (NASIP) Check List.”
- FAA Order 8300.10, Vol. 2, Chap. 74, “Evaluate FAR Parts 121 and 135 (10 or More and Turbine Powered Aircraft) Operator’s Weight and Balance Control Program.”
- FAA Order 8300.10, Vol. 2, Chap. 84, Sect. 2, “FAR Part 121 Operations Specifications Paragraph 9: Future Activities.”
- FAA Order 8400.10, Vol. 3, Chap. 6, Sect. 2, Par. 1189, “Load Manifests.”
- FAA Order 8400.10, Vol. 3, Chap. 15, Sect. 3, Par. 2133, “Weight and Balance Procedures.”
- FAA Order 8400.10, Vol. 6, Chap. 2, Sect. 5, Par. 183, “Part 121 Operator Trip Records Requirements.”
- FAA Order 8400.10, Vol. 6, Chap. 2, Sect. 5, Par. 187, “Trip Records Inspection Areas.”
- FAA Order 8400.10, Vol. 6, Chap. 2, Sect. 5, Par. 189, “General Inspection Practices and Procedures.”
- FAA Order 8400.10, Vol. 6, Chap. 2, Sect. 5, Par. 191, “Specific Inspection Practices and Procedures.”
- HBAW 97-12A and HBAWA 97-12, “Special Emphasis Surveillance of Part 121 Air Carrier Cargo Loading Procedures.”
- HBAW 95-15, and HBAW 95-14 “Adherence to Advisory Circular 120-27C, “Aircraft Weight and Balance Control.”
- FSAT 98-04, “Emphasis on Load Manifest.”
- Refer to Advisory Circulars using a search engine (such as ATP Navigator or Summit).