

Production

the act of producing;
creation or manufacture.



- the "**Manufacturer**" is the producer of the product in its final form before being delivered to the customer. Fabricators are involved in making sub-components of the finished product and could be either internal or externally sourced.
- **Fabrication** involves the use of skilled workers. Drawings/specs are given to those workers who decide themselves how best to make it, on what machines, and how long it should take.

Manufacturing involves relatively less skill. It relies on a much fewer number of skilled workers to setup the operation (jigs/fixtures, Work instructions, standard times.etc) so that a comparatively larger number of unskilled workers can produce parts in the same quantity and quality.

- **Manufacturing** is producing many of the same item.
- **Fabrication** is the making of a unique item or prototype.

Kawasaki manufacture motorbikes, Orange County Choppers fabricate custom bikes.

Definitions of “**manufacture**”

- make (something) on a large scale using machinery.
- make, produce, mass-produce, build, construct, assemble, put together

Definitions of “**fabrication**”

- the action or process of manufacturing or inventing something.
- the assembly and fabrication of products
- invention, concoction, (piece of) fiction, falsification, lie, untruth, falsehood

21.A.163 Privileges

- Pursuant to the terms of approval issued under point 21.A.135, the holder of a production organisation approval may:
- (a) perform production activities under this Annex I (Part 21);
- (b) in the case of complete aircraft and upon presentation of a statement of conformity (EASA Form 52) under point 21.A.174, obtain an aircraft certificate of airworthiness and a noise certificate without further showing;
- (c) in the case of other products, parts or appliances, issue authorised release certificates (EASA Form 1) without further showing;
- **AMC No. 1 to 21.A.133(b) and (c) Eligibility – Link between design and production**
- When the design and production organisations are two separate legal entities a Direct Delivery Authorisation (DDA) must be available for direct delivery to end users in order to guarantee continued airworthiness control of the released parts and appliances.

- 145.A.42 **Acceptance of components**
- (c) The organisation may fabricate a restricted range of parts to be used in the course of undergoing work within its own facilities provided procedures are identified in the exposition.

Manufacturing Part 21

ARRANGEMANG
21.A.133

Receiving/ inspection	Storage Part 21	Manufacturing	Assy/test etc.

POA= Production organisation approval.
Approved facility certified for repeated production steps.
 Holds arrangement with design holder.
 Only POA can deliver NEW or PROTOTYPE parts with EASA Form 1 (21.A.163)

Design approval holder
(TC/STC/ETSO/Changeholder) DOA

Maintenance activity (fabrication) Part 145

Fabrication instructions,
Maintenance data, etc.

Receiving / inspection	Storage Part 145	Maintenance activity (fabrication)	Installation + test etc.

AMO=Maintenance facility.
 Fabricating allowed ONLY if procedures are approved in MOE. ONLY for contracted aircraft with CAMO.
 Typically repairs not in SRM, or SB from TC-holder.
 Can NOT sell parts outside AMO. Can NOT issue EASA Form 1 for NEW or PROTOTYPE Parts.

Development today!.....

- Some P-145 has approached us, wanting to go from fabrication only for own aircraft, to produce certain limited series of P/N to sell to other P-145:s.
- Questions are raised for P 21F:s!