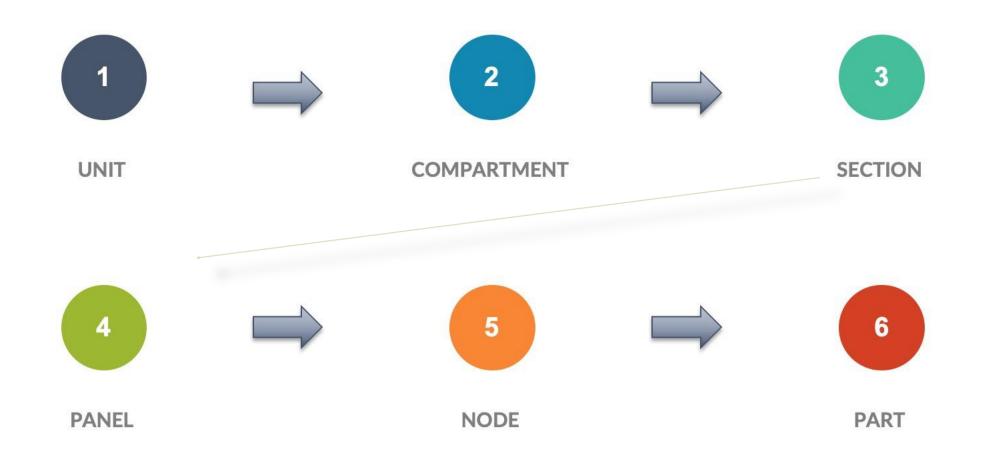
# AIRCRAFT PRODUCTION TECNOLOGY STUDY CASE 1 (LAB work 1)

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#### AIRCRAFT PARTS - CONSTRACTION SEPARATION



### AIRCRAFT PARTS – Onboard system separation

1

**System Complexes** 

Example:

Aircraft Control System Complex



Zones

Example:

Aircraft Control Sidestick Zone

2

Systems

Example:

Landing Gear Hydraulic System



Panels

Example:

Landing gear control Fuse Panel

3

Areas (Circuit, Sectors)

Example:

Fuel Pump Pipe Areas



Commutation Blocks

Example:

Thrust autopilot Commutation Block

# Study case assignment

**Part** is a product made of a homogeneous material without the use of assembly operations.

## Study case assignment

- 1. Pick one aircraft part and (!!!) one electronic part/ (preferably those parts you know something about or design\work with it before.
- 2. Locate this part in the other more common sections of the aircraft construction. (need at least one graphic explanation of localization)
- 3. On each level (from part and up to the system complex/unit) provide following information:
- Part location explanation (additional graphical explanation will be preferable)
- Interconnected part list (if it is a brake lining you need to enlist brake shoe, brake pad, wheel cylinder, disk rotor and etc.)
- Define the main purpose of the describe level (what does this part/node/section/zone/area performs in the whole aircraft)

### Study case acceptance criteria

- You need to list all 6 levels of construction separation in the greatest level of details you can. (if some level is missing, you need to explain why);
- More graphic content;
- Information completeness;
- Check carefully about separation misspelling (make sure where is section and where is a compartment and so on).