Competence Based Type Training for maintenance Today & Tomorrow
Competence Assessment

Competence Evolution

Learner Profile

Conclusion
Competence Assessment

- The objective of training is to gain the required competences in performing safe maintenance.
- The required competences have to be assessed.
- Two kinds of competences:
  - Operational competences
  - Interpersonal competences
Competence Assessment

Competences to be reached:

• Uses reports and indications
• Identifies Aircraft documentation
• Uses Aircraft documentation
• Performs correctly maintenance actions
• Operates complying with Environment
• Takes Systems interaction into account
• Performs Aircraft final / close-up
• Reports (establish & signs maintenance logbook)
Competence Assessment

Theory examination

Practical assessment

Remember
Name, state, list, define...

Understand
Explain, summarize, describe, illustrate...

Apply
Use, demonstrate, solve, construct...

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Once the competence is mastered it is transferable to different tasks on different subjects, if the adequate knowledge is acquired
Content

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2. Competence Evolution
3. Learner Profile
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New HMI

from physical tools...
New HMI

...via digital tools...
New HMI

...to IT world...
New maintenance practices

From LRU removal installation...

Conventional avionics LRUs

IMA
Integrated Modular Avionics
ATA42
New maintenance practices to software platform maintenance...
New competences for structure repair

BOLTED REPAIRS

Delaminations

BONDED REPAIRS

Delamination
Porosity
Bad Bonding
New competences for structure repair

Standard Practices

Bolted Repairs

Best Practices

Instructions

Tools

Skills
New competences for structure repair

**REPAIR SUCCESS =** Quality Control (each step)

- **Surface preparation**
- **Drying**
- **Material Storage**
- **Repair**
- **Curing**

**BEST PRACTICES**
How do we take into account the preferred learning style during maintenance type training?
How efficient is the traditional lecture method?
Learner Profile

Technology can support advanced teaching methods

iGeneration learners build knowledge by discovering
Conclusion

Competences are identified

Competences are assessed

Training is adapted to Learner Profile

These are the main drivers of Competence Based Training for maintenance type rating