

Australian Government Civil Aviation SafetyAuthority

Integrating HFP/NTS & SMS Training: Enhancing Safety Culture & Organisational Efficiency

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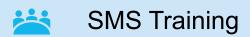


Overview

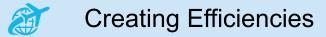




HF Principles & NTS Training



Similarities & Integration



Australia's Regulations

CASR Part 119: Air Transport Operations

- 119.175: Program for training and assessment in human factors principles and non-technical skills
- 119.180: Training in human factors principles and non-technical skills for flight crew etc.
- 119.185: Training in human factors principles and non-technical skills for other operational safety-critical personnel
- > **119.190**: Safety management system requirements



HFP & NTS Training

119.175: An Australian air transport operator must have a program for **training** and **assessing** operational safety-critical personnel in **human factors principles** and **non-technical skills**.

119.180: For flight crew etc. Who are:

- Flight crew
- Cabin crew
- Air crew
- Medical transport specialist
- Flight dispatcher

119.185: For other operational safety-critical personnel. Who are:

 Personnel carrying out safety-related work including roles with direct contact with physical operation of aircraft, or roles with operational contact with personnel who operate the aircraft, and any personnel as described by operator.



119.190: An Australian air transport operator must have a **safety management system** that is appropriate for the size, nature and complexity of the operator's Australian transport operations.

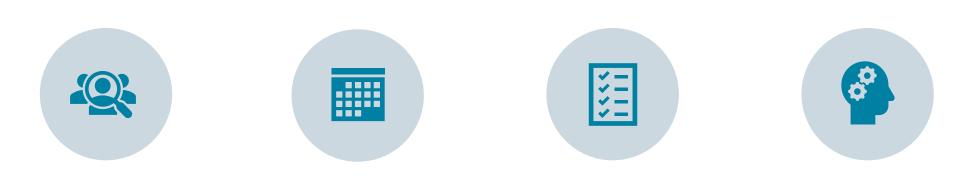
Must include details of the following:

• SMS training and education.

SMS training for all staff, tailored to their roles & responsibilities.

Regulatory guidance materials





Training Program Similarities

AUDIENCE FREQUENCY COURSEWARE ASSESSMENT

Training Program Similarities



HFP & NTS Training Courseware

HF Principles

Human performance knowledge, understanding human performance limitations & influences when working within a broader system.

- ➢ safety culture
- human performance principles basics
- stress/stress management
- fatigue/fatigue management
- workload management.

NTS

Applied human factors competencies that ensure individuals can function effectively as team members to mitigate or prevent threats & errors within the operating environment.

- communication
- ➤ teamwork
- situational awareness
- decision making
- threat and error management
- human information processing.

SMS Training Courseware

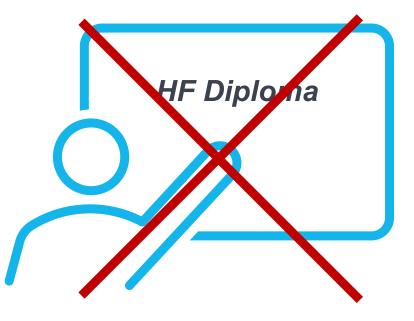
The SMS training covers:

- > Individual safety duties roles, responsibilities, & accountabilities
- How the organisation's SMS operates
- Human & organisational factors, including:
 - Safety culture / Just culture
 - HF & NTS elements with the intent of reducing human error.

There is a process in place to measure the effectiveness of training.

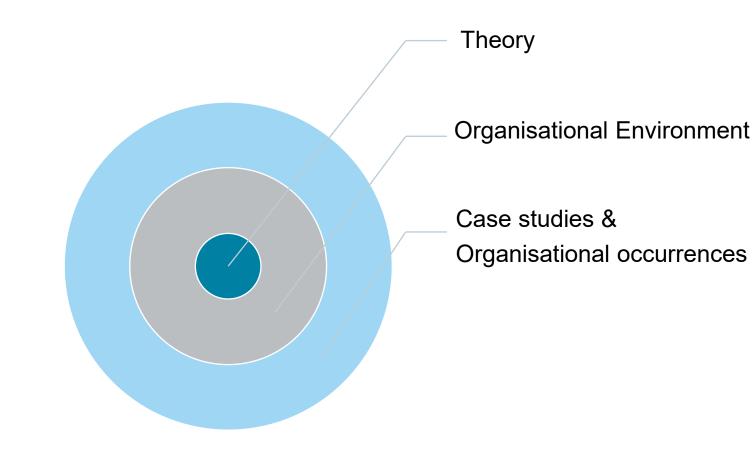
Syllabus: Yays and Nays





Syllabus: Yays and Nays

- Building basic foundational knowledge & awareness
- To develop skills & safety behaviors



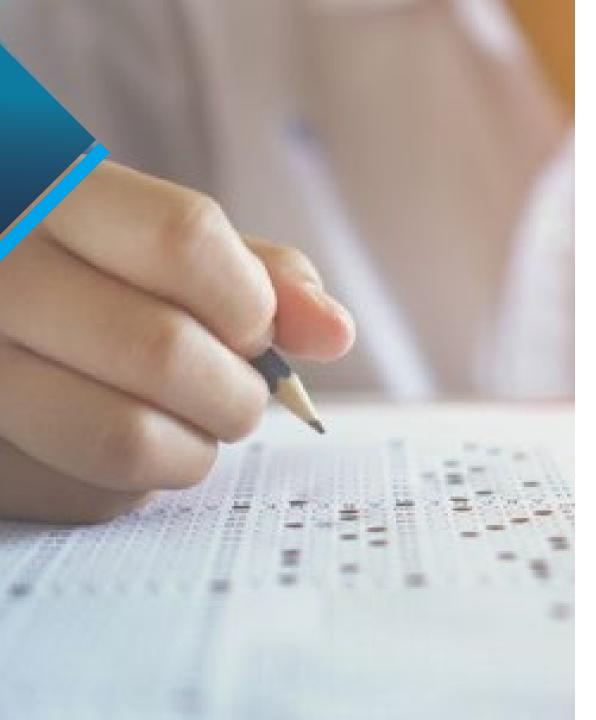
Training Program Similarities



Training Outcomes

- Management of human performance limitations & errors
- Identify, report & manage safety hazards
- Clear understanding of acceptable & unacceptable safety behaviors
- Monitor & adjust behaviors to take preventative or corrective actions to address hazards as part of their everyday functions.





Assessment

Clearly identified competencies for HFP, NTS and SMS.

Competencies achieved across:

- > Awareness
- Knowledge
- Skills
- Attitudes & Behaviors.

Creating Efficiencies

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Reduced training courses



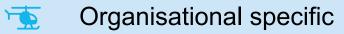
Reduced assessment requirements



Integration of safety concepts



Systems learning model

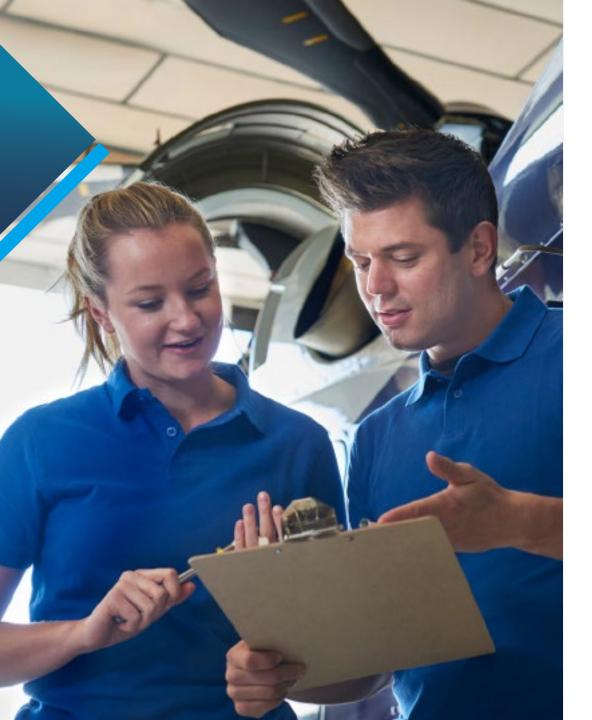


Creating Efficiencies

- Single course, multiple roles
- Enhancing teamwork & communication
- Shared mental model
- Enhancing safety culture







Creating Efficiencies

Trainers/Facilitators

Does the operator's manual incorporate a description of how facilitators are trained & assessed as suitably qualified to conducted HF/NTS training?

Is the competence of SMS trainers defined & assessed, and appropriate remedial action taken when necessary?



