Assessment Requirements for AVIM0008 Operate a simulator

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- accessing simulation data, including:
  - downloading from database
  - inserting a digital storage device
  - opening applications, directories and files
- applying fine physical motor skills
- communicating safety and emergency procedures
- communicating simulation sickness effects
- completing administrative tasks and functions related to simulator operations, including:
  - simulation activity planning
  - participant performance records and reports
  - simulation safety briefs
  - participant briefings/debriefings
- coordinating activities that involve a range of simple and/or complex tasks
- conducting access and egress, including:
  - appropriate and safe entry to simulator in accordance with organisational work health and safety (WHS) and security policies
  - appropriate and safe exit methodologies from simulators
  - interpretation of signage, safety warnings and simulator status
  - monitoring access of visitors to simulator and providing safety/security briefs as required
- coordinating information communication technology related activities
- creating and storing documents using information communication technology
- identifying and rectifying abnormal/unusual simulator conditions, including:
  - participant simulation sickness
  - equipment malfunction/failure
  - smoke or overheat warnings
  - emergency communication
  - loading stops
  - motion stops

- - hardware malfunction/failure
  - software malfunction/failure
  - poor/unusual participant performance
  - personnel equipment malfunction/failure
- implementing WHS procedures and relevant regulations
- implementing simulation activity variations, including:
  - adapting scenarios/activities based on participant feedback and/or performance
  - modifying hardware configurations
- modifying software settings
- manipulating, saving and storing simulation data in accordance with workplace procedures
- monitoring and addressing abnormal/unusual conditions
- monitoring simulator serviceability, including:
  - ensuring simulator is maintained to a level satisfactory to comply with organisational requirements
  - recording hardware/software issues that may arise during the course of routine equipment operation
  - submission of routine maintenance documentation
- reading, comprehending and interpreting written technical English
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- recording simulator faults
- refurbishing/maintaining simulator equipment and operating systems in accordance with workplace procedures
- selecting and employing simulation equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- abnormal conditions, including hardware, software and equipment malfunction/failure and poor/unusual participant performance
- application of simulation and synthetic activities including live, virtual and constructive (LVC) simulations
- basic database management
- basic briefing and debriefing techniques, including:
  - simulator safety
  - simulation event review
- documentation production and safe storage
- effects of simulation sickness, including:
  - nausea subscale:
    - increased salivation

- - - sweating

    - nausea

    - stomach awareness

    - burping

  - oculomotor subscale:

    - fatigue

    - headache

    - eyestrain

    - difficulty focusing

  - disorientation subscale:

    - vertigo

    - dizzy (eyes open)

    - dizzy (eyes closed)

    - blurred vision

- established procedures applicable to simulation operations

- functions of single-user, multi-user and distributed user operating systems

- identification of signs/symptoms and methods of rectifying abnormal/unusual simulator conditions, including:

  - participant simulation sickness

  - equipment malfunction/failure

  - smoke or overheat warnings

  - emergency communication

  - loading stops

  - motion stops

  - hardware malfunction/failure

  - software malfunction/failure

  - poor/unusual participant performance

  - personnel equipment malfunction/failure

  - relevant WHS and environmental procedures and regulations applicable to simulation operations and personnel safety/individual safety considerations

  - safety briefings

  - access and egress procedures

  - reporting and recording simulation WHS issues

- information communications technology in the simulation and synthetic learning environment

- simulation activity variations, including:

  - adapting scenarios/activities based on participant feedback and/or performance

  - modifying hardware configurations

  - modifying software settings.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- appropriate simulation equipment must include one or more of the following:
  - access database
  - compact discs
  - computer software subclass
  - digital insertion devices
  - gaming software
  - personnel equipment (e.g. hearing protection, eye protection, clothing and footwear)
  - software applications
  - storage strategy within organisational databases
  - synthetic environment software (e.g. SETHI)
  - universal serial bus devices
  - web-based database
- simulator must include one or more of the following:
  - associated simulator computer hardware and software
  - desktop simulator
  - full motion simulator
  - flight training device
  - operating system
  - part-task trainer
  - simulator
  - single, multiple or team operator simulator
  - synthetic training device

- virtual reality training system.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816