

Unit of Competency CPPHES4003

Operate and maintain computer system to support thermal performance assessments

Application

This unit specifies the skills and knowledge required to operate and maintain a computer system and software applications to support thermal performance assessments using accredited Nationwide House Energy Rating Scheme (NatHERS) software. It includes installing and updating software and hardware and performing computer configurations, routine data back-ups, troubleshooting and system maintenance.

This unit is for individuals who work independently as thermal performance assessors using specialised knowledge to complete thermal performance assessments of residential buildings. It involves completing routine and non-routine tasks and dealing with predictable and sometimes unpredictable problems.

This unit forms part of the licensing requirements NatHERS assessments. For further information, check with the relevant regulatory authority.

Prerequisite Unit

None.

Competency Field

Home Sustainability.

Elements and Performance Criteria

1. Prepare to use computer system for thermal performance assessment.	1.1	Make required ergonomic adjustments to personal computer furniture and fittings.
	1.2	Check physical connectivity and follow computer and operating system start-up procedures.
	1.3	Confirm correct operation and performance of computer and hardware devices.
2. Configure computer system for thermal performance assessment.	2.1	Adjust computer settings to suit user requirements.
	2.2	Configure power management settings to minimise power consumption.
	2.3	Identify operating system and application programs loaded onto computer and confirm computer capability and correct NatHERS software version.
	2.4	Conduct software installation and removal to improve computer capability and readiness for thermal performance assessment.
	2.5	Create and customise desktop icons to access applications and NatHERS programs.
	2.6	Connect, disconnect and configure removable storage devices used to store, maintain and back-up data.

3. Access and manipulate data for thermal performance assessment.	3.1 Access and manipulate thermal performance data using objects, macros, shortcut features and templates to increase efficiency. 3.2 Convert and store data to suit operating system and applications to support thermal performance assessment. 3.3 Employ advanced features of NatHERS software to prepare and present data. 3.4 Link and embed files to transfer data between applications. 3.5 Transmit data to support thermal performance assessment using electronic methods.
4. Perform routine system maintenance.	4.1 Perform regular system back-up to minimise risk of data loss, and label, store and retrieve back-up files according to organisational requirements. 4.2 Use firewall, antivirus and malware scans to reduce security risks and threats in the computer system. 4.3 Monitor and maintain correct functioning of automated processes. 4.4 Update off-line record of maintenance procedures according to organisational requirements.
5. Solve routine problems with computer system.	5.1 Identify problem with computer system and apply basic information technology troubleshooting techniques to resolve problem. 5.2 Access online assistance to overcome difficulties with computer system or NatHERS software. 5.3 Recover damaged or corrupted files using appropriate software, equipment or technical support according to organisational requirements.
6. Upgrade and reconfigure personal computer and NatHERS software.	6.1 Install new and update existing computer hardware. 6.2 Test new and updated computer hardware and confirm correct operation. 6.3 Install new and update existing NatHERS software. 6.4 Test and configure new and updated NatHERS software and confirm correct operation. 6.5 Maintain records of installations, updates and configurations according to organisational requirements.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPPHSA4020A Operate computer systems to support NatHERS assessment.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPHES4003

Operate and maintain computer system to support thermal performance assessments

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by operating and maintaining computer systems and the software to support at least two thermal performance assessments using accredited Nationwide House Energy Rating Scheme (NatHERS) software.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- basic operations of NatHERS software tools
- basic components, set up procedures and operation of personal computer systems that support thermal performance assessments
- basic information technology troubleshooting procedures
- common technologies and procedures that prevent data loss associated with thermal performance assessments
- ergonomic principles applicable to setting up and using a computer system and furniture
- methods for identifying and verifying software versions
- minimum software requirements of a software tool that must be met in order to receive accreditation
- modes of NatHERS software operation
- procedures for conducting routine back-ups of computer systems and files and for maintaining system security
- procedures for installing, removing and upgrading NatHERS software and other applications that support computer system functionality
- procedures for storing, converting, transmitting and retrieving data associated with thermal performance assessments
- purpose and types of virus protection for computer systems
- purpose, management and types of electronic data removal and storage devices
- sources of assistance to resolve problems with computer systems and software when conducting thermal performance assessments
- types and purpose of NatHERS software tools and associated licensing conditions.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- computer system, devices and software including current accredited NatHERS software to allow achievement of the performance evidence
- relevant hardware and software product information and operating manuals.

Links

Companion Volume Implementation Guide: to be added:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>