



Australian Government

Department of Education, Employment and Workplace Relations

UEENEEI042A Develop an integrated system interface for access through a touch screen

Release: 1

UEENEEI042A Develop an integrated system interface for access through a touch screen

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

1)

1.1) Descriptor

This unit covers the development of integrated systems touch screen interface. It encompasses working safely, applying knowledge of the application integrated system, working with customers to determine required control parameters, application of touch screen software components and embellishments, network connectivity, using diagnostic tools and documenting the developed systems.

Application of the Unit

Application of the Unit 4)

This unit is intended as an elective or skill set at AQF 4 level. It is suitable for employment-based programs under an approved contract of training and may be aligned with a vendor training program that is shown to have the same competency outcomes as this unit.

Licensing/Regulatory Information

1.2) License to practice

The skills and knowledge described in this unit do not require a licence to practice in the workplace. However the skills and knowledge as they apply to working directly on the associated electrical power wiring and equipment require a licence to practise in the workplace where the operating voltage is above 50 V a.c. or 120 V d.c. subject to regulations to carry out electrical work. Practice in the workplace and during training is subject to occupational health and safety regulations and codes and obligation of 'contracts of training' such as apprenticeships.

Pre-Requisites

Prerequisite Unit(s) 2)

2.1) Competencies

Granting competency in this unit shall be made only after competency in the following unit has been confirmed.

UEENEEI041A Develop integrated systems

Employability Skills Information

Employability Skills

3)

This unit contains Employability Skills. The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this unit of competency is packaged will assist in identifying Employability Skill requirements.

Elements and Performance Criteria Pre-Content

6) Elements describe the essential outcomes of a unit of competency

Performance criteria describe the required performance needed to demonstrate achievement of the Element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1 Prepare to develop and integrated system touch screen interface

- 1.1 The areas and control to be accessed through the touch screen are determined from the integrated systems data base and customer requirements.
- 1.2 Control parameters to be accessed through the touch screen are determined from the integrated systems data base and confirmed with the customer.
- 1.3 Touch screen embellishments to be applied are discussed and confirmed with the customer.
- 1.4 Touch screen programming and integrated system programming software and project data are down loaded to a compatible PC.
- 1.5 Programming tools are and checked for correct operation.
- 1.6 Manufacturer's instruction for installing and connecting touch screens are read and understood

ELEMENT	PERFORMANCE CRITERIA
2 Develop and integrated system touch screen interface	2.1 OHS risk control work measures and procedures are followed.
	2.2 Installation and connection for the touch screen are checked for compliance with manufacture's requirements.
	2.3 Knowledge of integrated system and touch screen programming methods are used in developing a touch screen interface.
	2.4 Touch screen interface functions and embellishments are developed for compatibility with the integrated system and to customer requirements
	2.5 Network connectivity is implemented, where required, and web page content made available.
3 Back up, transfer and test touch screen interface	3.1 OHS work completion risk control measures and procedures are followed.
	3.2 Touch screen interface program is backed up and transfer to the touch screen following manufacturer's instructions.
	3.3 Touch screen tests are conducted to verify compatibility and compliance with the integrated system and customer requirements.
	3.4 Non-compliance operations and anomalies are corrected to comply with manufacturer's and customer requirements.
	3.5 A copy of the documentation of the as-programmed touch screen specifications is given the client or client's representative.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

7) This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge and associated skills for developing an integrated system interface for access through a touch screen have been acquired.

All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies.

The extent of the essential knowledge and associated skills (EKAS) required is given in Volume 2 - Part 2.2 EKAS. It forms an integral part of this unit.

KS01-EI042A Touch screen installation requirements and programming in integrated systems

Evidence Guide

EVIDENCE GUIDE

9) The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

The Evidence Guide forms an integral part of this unit. It must be used in conjunction with all parts of the unit and performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment

9.1)

Longitudinal competency development approaches to assessment, such as Profiling, require data to be reliably gathered in a form that can be consistently interpreted over time. This approach is best utilised in Apprenticeship programs and reduces assessment intervention. It is the industry-preferred model for apprenticeships. However, where summative (or final) assessment is used it is to include the application of the competency in the normal work environment or, at a minimum, the application of the competency in a realistically simulated work environment. It is recognised that, in some circumstances, assessment in part or full can occur outside the workplace. However, it must be in accordance with industry and regulatory policy.

Methods chosen for a particular assessment will be influenced by various factors. These include the extent of the assessment, the most effective locations for the assessment activities to take place, access to physical resources, additional safety measures that may be required and the critical nature of the competencies being assessed. The critical safety nature of working with electricity, electrical equipment, gas or any other hazardous substance/material carries risk in deeming a person competent. Sources of evidence need to be 'rich' in nature to minimise error in judgment.

Activities associated with normal everyday work have a bearing on the decision as to how much and how detailed the data gathered will contribute to its 'richness'. Some skills are more critical to safety and operational requirements while the same skills may be more or less frequently practised. These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments. Sample assessment instruments are included for Assessors in the Assessment Guidelines of this Training Package.

Critical aspects of evidence required

9.2)

Before the critical aspects of evidence are considered all

EVIDENCE GUIDE

to demonstrate competency in this unit

prerequisites must be met.

Evidence for competence in this unit shall be considered holistically. Each element and associated performance criteria shall be demonstrated on at least two occasions in accordance with the 'Assessment Guidelines - UEE07'. Evidence shall also comprise:

- A representative body of performance criteria demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to:
 - Implement Occupational Health and Safety workplace procedures and practices, including the use of risk control measures as specified in the performance criteria and range statement
 - Apply sustainable energy principles and practices as specified in the performance criteria and range statement
 - Demonstrate an understanding of the essential knowledge and associated skills as described in this unit. It may be required by some jurisdictions that RTOs provide a percentile graded result for the purpose of regulatory or licensing requirements.
 - Demonstrate an appropriate level of skills enabling employment
 - Conduct work observing the relevant Anti Discrimination legislation, regulations, policies and workplace procedures
- Demonstrated consistent performance across a representative range of contexts from the prescribed items below:
 - as described in 8) and including:
 - A Determining the areas and control parameters to be accessed through the touch screen
 - B Confirming touch screen embellishments to be applied
 - C Down loading to a PC and checking touch screen programming and integrated system programming software and project data.
 - D Understanding manufacturer's instruction for installing and connecting touch screens
 - E Checking that the installation and connections for the touch screen comply with manufacture's requirements.

EVIDENCE GUIDE

- F Developing touch screen interface functions and embellishments in accordance for compatibility with the integrated system and to customer requirements
- G Backing up and transferring touch screen interface program following manufacturer's instructions.
- H Testing touch screen and correcting non-compliance operations and anomalies.
- I Documenting the as-programmed touch screen specifications

Context of and specific resources for assessment

9.3)

This unit should be assessed as it relates to normal work practice using procedures, information and resources typical of a workplace. This should include:

- OHS policy and work procedures and instructions.
- Suitable work environment, facilities, equipment and materials to undertake actual work as prescribed in this unit.

These should be used in the formal learning/assessment environment.

Note:

Where simulation is considered a suitable strategy for assessment, conditions for assessment must be authentic and as far as possible reproduce and replicate the workplace and be consistent with the approved industry simulation policy.

The resources used for assessment should reflect current industry practices in relation to develop a integrated system interface for access through a touch screen.

EVIDENCE GUIDE

Method of assessment	9.4) This unit shall be assessed by methods given in Volume 1, Part 3 'Assessment Guidelines'. Note: Competent performance with inherent safe working practices is expected in the Industry to which this unit applies. This requires that the specified essential knowledge and associated skills are assessed in a structured environment which is primarily intended for learning/assessment and incorporates all necessary equipment and facilities for learners to develop and demonstrate the essential knowledge and skills described in this unit.
Concurrent assessment and relationship with other units	9.5) There are no concurrent assessment recommendations for this unit.

Range Statement

RANGE STATEMENT

8) This relates to the unit as a whole providing the range of contexts and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

This unit shall be demonstrated in relation to using manufacturer's designated software to:

- program a B/W touch screen for safe and effective operation .
- create and edit scenes, schedules and access control
- use templates to enhance a touch screen
- backup and restore program
- transfer the programmed access to a touch screen in an integrated system

and

RANGE STATEMENT

- program a colour touch screen for safe and effective operation .
- create and edit scenes, schedules and access control
- use templates to enhance a touch screen
- backup and restore program
- transfer the programmed access to a colour touch screen in an integrated system

Generic terms used throughout this Vocational Standard shall be regarded as part of the Range Statement in which competency is demonstrated. The definition of these and other terms that apply are given in Volume 2, Part 2.1.

Unit Sector(s)

Not Applicable

Competency Field

2.2) Literacy and numeracy skills

Participants are best equipped to achieve competency in this unit if they have reading, writing and numeracy skills indicated by the following scales. Description of each scale is given in Volume 2, Part 3 'Literacy and Numeracy'

Reading	3	Writing	3	Numeracy	3
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Custom Content Section

Competency Field 5)

Electrotechnology