

	Unit ID: 2291
Domain	TELECOMMUNICATION AND WIRELESS TECHNOLOGY
Title:	Develop innovative ideas for the telecommunication workplace
Level: 5	Credits: 7

Purpose

This unit standard is intended for those who develop innovative ideas for the telecommunication workplace. People credited with this unit standard are able to identify the need for innovation in the workplace, conduct research and be innovative, collaborate with others, analyse and reflect on ideas and represent ideas.

This unit standard is intended for those who work in the telecommunication and wireless technology working environment.

Special Notes

1. Entry information:

Prerequisites:

- None

2. This unit standard is to be delivered and assessed in the context of information and communication technology.

3. Assessment evidence may be collected from a real or a simulated workplace in which telecommunication and wireless technology operations are carried out.

4. Tools and equipment may include but are not limited to computer, external devices, storage devices and other and basic computer applications.

5. Performance of all elements in this unit standard must comply with industry standards.

6. Glossary of terms

- *'innovative'* means to generate new ideas or solutions or develop new uses for old ideas and making them useful or a means of improvement
- *'Specification'* refers to any or all of the following: manufacturer's specifications and recommendations, site and workplace specific requirements.

7. Regulations and legislation relevant to this unit standard include the following:

- Labour Act No. 11, 2007
- Occupational Health and Safety Regulations No. 18, 1997 and all subsequent amendments.
- ISO 14001 (Environmental Management Standard)
- Electricity Act, 2000 (Act No. 2 of 2000)

- SANS 10142-1 and SANS 10142-2 electrical wiring codes and all subsequent amendments to any of the above.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na

Elements and Performance Criteria

Element 1: Identify the need for innovation in the workplace

Range

Innovation may include generating new ideas or solutions or developing new uses for old ideas and making them useful or a means of improvement.

Assumptions can be about any convention in the workplace and might include: work process, product, materials, system, tools and working conditions.

User requirements may refer to who will be using the end product, why the product or process is needed, how it will be used, advantages it will provide and where it will be used.

Performance Criteria

- 1.1 The need for innovation within the workplace context is observed.
- 1.2 Assumptions about products or processes are challenged to identify opportunities for innovation.
- 1.3 Possible future contexts and environments for the innovation are projected.
- 1.4 End user requirements are defined.
- 1.5 Resources and constraints are identified.
- 1.6 Factors and ethical considerations that may impact on the idea are researched.
- 1.7 Relevant organisational knowledge is accessed.

Element 2: Conduct research and be innovative

Range

Creative thinking techniques might include: brainstorming, visualising, making associations, and building on associations, telling stories, creative writing, lateral thinking games, mind mapping, drawings, six thinking hats and using prompts.

Stimulation from alternative sources might include: reading books and industry journals, talking with colleagues and friends, *visiting art galleries and museums*, going to industry workshops, networks and information communication technology conferences.

Performance Criteria

- 2.1 Ideas are conceptualised using a range of creative thinking techniques.
- 2.2 Relevant knowledge to explore a range of approaches is applied.
- 2.3 Stimulation from alternative source is sought.
- 2.4 Ideas are tested against brief and other factors.
- 2.5 Preferred option is selected.

Element 3: Collaborate with others

Range

Relevant people might include colleagues, team members, supervisors, managers and clients.

Maintaining a network of peers may include participating in forums, participating in industry training, attending workshops and becoming a member of a network.

Performance criteria

- 3.1 Ideas are developed in conjunction with relevant people.
- 3.2 Feedback is sought and accepted from relevant people in an appropriate fashion.
- 3.3 Ideas are modified according to feedback.

Element 4: Analyse and reflect on ideas

Performance criteria

- 4.1 Ideas are analysed from different perspectives.
- 4.2 Appropriate strategies are used to capture reflections.
- 4.3 Ideas are examined to ensure they meet context requirements, best practice and future needs.
- 4.4 Processes of development and analysis are outlined.

Element 5: Represent ideas

Range

Communication techniques refer to presenting ideas and may include writing a proposal, building a model, showing a film, presenting a talk, preparing a report or drawing a diagram.

Educating the client might include helping the client visualise and understand the idea, actively listening, asking questions, accepting others' opinions, explaining the proposal and clarifying details.

Performance criteria

- 5.1 A communication technique is selected for the target audience.
- 5.2 The presentation of ideas is developed with the audience in mind.
- 5.3 Ideas are presented to educate and inform the client.
- 5.4 Ideas are modified and tested according to client feedback.

Registration Data

Subfield:	Information and Communication Technology
Date first registered:	30 July 2020
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Body responsible for review:	NTA