



Australian Government

Assessment Requirements for ICTSUS811 Conduct and manage life cycle assessments for sustainability

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 7.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- conduct and manage at least two life cycle assessments (LCA) and at least two life cycle inventories (LCI) for sustainability.

In the course of the above, the candidate must:

- scope and define the goals of an LCA
- produce at least two LCI using required software and data collection strategies
- use at least two LCA and required software for researching and interpreting charts, flowcharts, graphs and other visual data and information
- evaluate LCI and life cycle impact assessment (LCIA) results in light of completeness, consistency and sensitivity factors
- make best practice recommendations based on results of LCA studies.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- required legislation, codes, company work practices, regulations and standards, work health and safety (WHS) requirements for scoped work
- applications and characteristics of LCA, LCI and LCIA
- industry-approved information sources and research resources used to conduct LCA, LCI and LCIA
- methods to construct life cycle flow diagrams
- industry-approved data collection strategies used in LCA, LCI and LCIA
- types of environmental impact categories (EIC) that affect sustainability
- types of weighting factors used to normalise impact of EIC
- requirements of LCA reports

- equal opportunity, equity and diversity principles when conducting sensitivity checks for policy development
- policy development processes and practices
- principles, practices and available tools and techniques of sustainability management required to the telecommunications industry
- quality assurance systems required to own organisation
- required organisational policies, procedures and protocols
- required systems and procedures to aid in the achievement of workplace sustainability
- information and communications technology (ICT) power consumption calculations
- power consumption and energy audit methodology
- methods to estimate CO₂ emissions
- environmental impacts of products, processes, systems and services.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- websites on which planning, design and integration of sustainability may be carried out
- required legislation, standards, guidelines, reports and equipment specifications and drawings
- a range of workplace documentation and personnel information and resources (such as compliance obligations, organisational plans and work responsibilities).

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>