



Australian Government

Department of Education, Employment and Workplace Relations

FDF31012 Certificate III in Sugar Milling Industry Operations

Release: 1

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Modification History

This qualification has been derived from SUG30102 Certificate III in Sugar Milling. See Qualification Mapping Guide for notes on equivalence.

Description

Job Roles

This qualification covers work undertaken by sugar milling industry workers. Job roles may include for example:

Sugar Processing

Sugar boiler operator

Operator in charge of milling train or power trains

Operator in charge of boiler, milling train and powerhouse

Cane Supply Transport

Loco driver

Traffic officer

Mill Services

Foreman/bridge carpenter

Engine driver in mills

Additional Qualification Advice

Units selected from other Training Packages must be relevant to the work outcome, local industry requirements and the qualification level.

Note: AgriFood Skills Australia expects that the design of any training delivery and assessment program to support the achievement of this qualification is based on:

- the context required by the industry and/or enterprise
- a holistic and integrated training delivery and assessment plan that identifies learning activities and evidence required
- flexible delivery options including on-the-job and work-based training that support the development of competency.

Pathways Information

Pathways into the Qualification

Pathways for candidates considering this qualification include completion of FDF21011 Certificate II in Sugar Industry Operations or equivalent or direct entry.

Pathways from the Qualification

There are no higher level qualifications in sugar industry or sugar milling operations. However these qualifications will provide some credit within higher level Food Processing qualifications.

Australian Apprenticeships

This qualification is suitable for an Australian Apprenticeship.

Licensing/Regulatory Information

There is no direct link between this qualification and licensing, legislative and/or regulatory requirements. However, all work must comply with food safety, occupational health and safety (OHS) and environmental regulations and legislation that apply to the workplace. There are elective Units available in this Qualification linked to the National Standard for Licensing Persons Performing High Risk Work. Refer to the host Training Package for details about the application of these Units and regulatory frameworks for their use.

Entry Requirements

There are no entry requirements for this qualification.

Employability Skills Summary

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • Complete all reporting as required • Receive and relay oral and written messages • Read and apply workplace procedures and instructions • Communicate information about problems with work.
Teamwork	<ul style="list-style-type: none"> • Work as a team member • Identify own role and responsibilities within a team • Share workplace information.
Problem-solving	<ul style="list-style-type: none"> • Recognise and report any workplace hazards • Identify common problems and take required action • Follow workplace food safety procedures.
Initiative and Enterprise	<ul style="list-style-type: none"> • Inspect quality of work on an ongoing basis • Take appropriate corrective action to routine work problems • Select appropriate equipment • Distinguish between urgent and non-urgent tasks.
Planning and Organising	<ul style="list-style-type: none"> • Identify work requirements • Identify work priorities • Plan work activities to meet daily work requirements • Direct items to the correct area for further processing • Identify and use relevant personal protective equipment • Organise work area to maintain housekeeping standards • Organise relevant equipment and tools.
Self-management	<ul style="list-style-type: none"> • Identify personal responsibilities and work requirements • Manage time to meet own work requirements • Plan activity to meet own work requirements • Keep the work area clean and tidy at all times • Monitor the quality of own work against quality standards • Follow OHS practices • Identify safety requirements for working in food processing industry • Seek assistance from other team members where appropriate.
Learning	<ul style="list-style-type: none"> • Check work outcomes against workplace standards and identify inconsistencies • Assess own ability to meet job requirements • Listen to feedback and advice of supervisors • Identify own skill requirements and seek skill development if required • Attend training or skill development activities

	<ul style="list-style-type: none">• Ask questions to expand own knowledge• self-check numerical information.
Technology	<ul style="list-style-type: none">• Use work tools, machines and equipment safely and according to workplace procedures• Use manual handling technologies in the workplace• Use information technology devices as required.

Packaging Rules

Complete **twenty four (24)** units of competency in comprised of:

- Three (3) Core Units
- Twenty one (21) Elective Units

Core Units

Unit Code	Unit Title
FDFSUG308A	Analyse and convey workplace information
FDFOHS3001A	Contribute to OHS processes
MSAENV272B	Participate in environmentally sustainable work practices

Elective Units

- Select a minimum of five (5) units from Group A
- Select a minimum of seven (7) additional units from Group A or Group B
- Nine (9) additional units can come from Group A, Group B and or/this or any other endorsed Training Package or accredited course at Certificate I, II, III or IV.
- A maximum of eight (8) units may be packaged at AQF Level 1.
- Selected units must be relevant to job outcomes in the sugar milling industry.

Group A Units

Special Sector Units	
Rail Transport Operations	
FDFSUG301A	Drive a master-slave locomotive * <i>FDFSUG206A Drive a cane locomotive</i>
FDFSUG302A	Control cane traffic movements
FDFSUG303A	Adjust cane delivery schedules to meet daily milling requirements
Factory Operations	
AHCMOM301A	Coordinate machinery and equipment maintenance and repair
AHCMOM302A	Perform machinery maintenance
AHCMOM304A	Operate machinery and equipment
AHCMOM305A	Operate specialised machinery and equipment
FDFSUG304A	Operate a boiler - intermediate

FDFSUG305A	Operate a boiler - advanced
FDFSUG306A	Monitor a sugar mill powerhouse * <i>FDFSUG217A Operate a turbine</i>
FDFSUG309A	Operate a sugar system
Laboratory	
FDFSUG307A	Perform factory control tests
General	
FDFPPL3004A	Lead work teams and groups
TLILIC2016A	Licence to drive heavy rigid vehicle
TLILIC3017A	Licence to drive heavy combination vehicle

Group B Units

FDFSUG201A	Lay sleepers for cane rail systems
FDFSUG202A	Lay rails for cane rail systems
FDFSUG203A	Lay skeleton track for cane rail systems
FDFSUG204A	Operate tamping equipment
FDFSUG205A	Construct turnouts * <i>FDFSUG202A Lay rails for cane rail systems</i>
FDFSUG206A	Drive a cane locomotive
FDFSUG207A	Conduct cane weighbridge operations
FDFSUG208A	Operate a tipping station
FDFSUG209A	Operate an extraction station
FDFSUG210A	Operate a juice clarification process
FDFSUG211A	Operate a mud filtration process
FDFSUG212A	Chemically clean equipment
FDFSUG213A	Operate a pans station
FDFSUG214A	Operate a low grade fugal station

FDFSUG215A	Operate a high grade fugal station
FDFSUG216A	Operate a crystalliser station process
FDFSUG217A	Operate a turbine
FDFSUG218A	Operate a boiler - basic
FDFSUG219A	Operate a bagasse fuel supply system
FDFSUG220A	Operate a coal fuel supply system
FDFSUG221A	Operate an ash separation system
FDFSUG222A	Operate a waste water treatment system
FDFSUG223A	Operate a cooling water system
FDFSUG224A	Perform standard tests on cane samples
FDFSUG225A	Collect and prepare samples
FDFSUG226A	Perform general drilling operations
FDFSUG227A	Perform general lathe operations
FDFSUG228A	Perform general milling operations
FDFSUG229A	Perform general planing and shaping operations
FDFSUG230A	Undertake forming, bending and shaping
FDFSUG231A	Undertake simple fabrication
FDFOP2030A	Operate a process control interface
FDFOP2034A	Operate an evaporation process
AHCMOM203A	Operate basic machinery and equipment
AHCMOM204A	Undertake operational maintenance of machinery
AHCMOM207A	Conduct front end loader operations
CPCCDO3011A	Perform dogging * <i>CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry</i>
CPCCRI3012A	Perform basic rigging *

	<i>CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry</i> <i>CPCCDO3011A Perform dogging</i>
CPCCSC2002A	Erect and dismantle basic scaffolding * <i>CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry</i>
RIICBM305A	Install pre-cast concrete bridge decks
RIIHAN305A	Operate gantry or overhead crane
RIIMPO319A	Conduct backhoe/loader operations
TLIC2041A	Operate self-propelled equipment on track
TLID3035A	Operate a boom type elevating work platform
TLID3036A	Lift and move load using a mobile crane
TLILIC2001A	Licence to operate a forklift truck
TLILIC2014A	Licence to drive light rigid vehicle
TLILIC2015A	Licence to drive medium rigid vehicle
TLILIC3006A	Licence to operate a non-slewing mobile crane (greater than 3 tonnes capacity)