VETASSESS

Information sheet

# Chemist

ANZSCO: 234211

Group A

### About this document

- The following Information Sheet is for your reference only and should be used as a guide to assist with your Skills Assessment application to VETASSESS. This information is subject to change.
- Please note that a Skills Assessment of the qualification involves assessment of both the qualification level and content. Qualifications are assessed according to the guidelines published by the Australian Government Department of Education.
- The employment assessment involves determining the skill level and relevance of the tasks undertaken.
- Integrity checks may be conducted to verify the qualification and employment claims made in an application.

## Job description

A Chemist studies the chemical and physical properties of substances, and develops and monitors chemical processes and production.

## Occupations considered suitable under this ANZSCO code:

- Analytical Chemist
- Industrial Chemist
- Quality Control Chemist

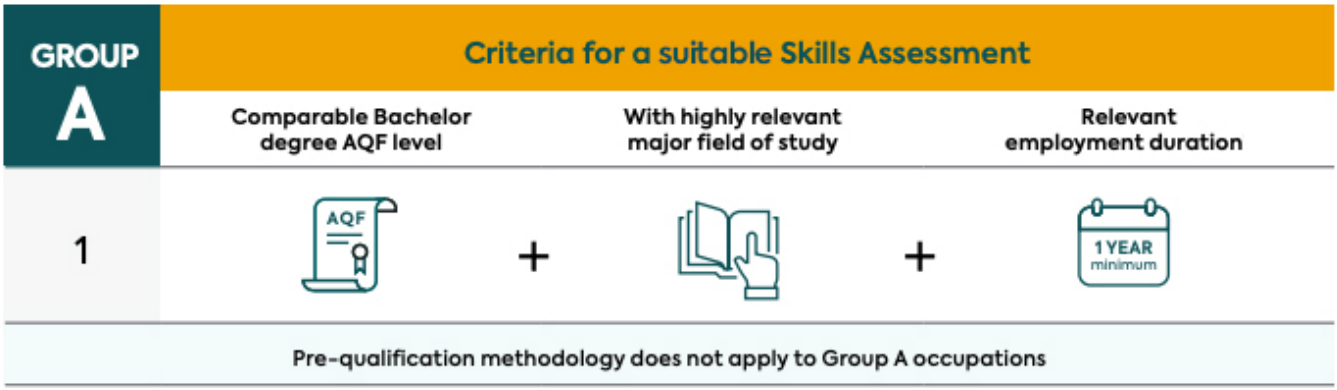
## Occupations not considered under this ANZSCO code:

- Industrial Pharmacist
- Pharmacist (Non-clinical)
- Food Technologist
- Chemistry Technician

These occupations are classified elsewhere in ANZSCO or are not at the required skill level.

# Chemist is a VETASSESS Group A occupation

This occupation requires a qualification assessed as comparable to the educational level of an Australian Qualifications Framework (AQF) Bachelor degree or higher, in a field highly relevant to the nominated occupation.




The information below describes the available pathways for a Skills Assessment under**Group A**. Please note that in order to achieve a suitable Skills Assessment Outcome, a suitable assessment for both qualifications and employment is required.

**Pathway 1**

This pathway requires a qualification assessed as comparable to the education level of an Australian Qualifications Framework (AQF) Bachelor degree or higher degree and in a field highly relevant to the nominated occupation.

Bachelor degree or higher degree includes AQF Master Degree or AQF Doctoral Degree.

In addition, it is essential for applicants to meet the following employment criteria:

- at least **one** year of post-qualification employment at an appropriate skill level, undertaken in the last five years,
- working 20 hours or more per week, and
- highly relevant to the nominated occupation.

## Qualification

This includes qualifications assessed at AQF Bachelor, Master and Doctoral level. The qualifications listed below, with a major in Chemistry, may be assessed as highly relevant on a case-by-case basis. A major in Chemistry would include subjects such as analytical, physical, organic and inorganic chemistry with an additional focus on modern applications such as nanotechnology, analytical and environmental chemistry, polymer science and surface science.

- Forensic Science
- Biotechnology
- Nanotechnology
- Pharmaceutical Science

Highly relevant major fields of study include:

- Science (Chemistry major
- Chemistry
- Medicinal Chemistry
- Applied Chemistry
- Biochemistry

## Employment

Highly relevant tasks include, but are not limited to:

- Conducting experiments and tests to identify the chemical composition and reactive properties of natural substances and processed materials.
- Analysing and conducting research to develop theories, techniques and processes, and testing the reliability of outcomes under different conditions.
- Developing practical applications of experimental and research findings.

Additional tasks may include:

- Developing procedures, instruments, recording and testing systems to be used in experiments.
- Developing and monitoring quality control procedures for the manufacture of products in plants or factories.
- Preparing or supervising the preparation of laboratory reports, scientific papers and reports on specifications and standards.
- May supervise and coordinate the work of technicians.
- May test products or materials to ensure compliance with government health laws, and standards of quality and puritys.
- May use micro-organisms to convert substances into new compounds.

## Employment Information

Chemistry (or Chemical Sciences) is the study of the composition, structure, chemical reactions and transformations of matter.

A Quality Control Chemist is a specific type of laboratory chemist, whose primary duties are to develop and update standard operating procedures, measure and test lab materials and products according to industry-specific standard procedures. As a Quality Control chemist, you assure adherence to all federal regulations and safety procedures. In addition to performing rigorous quality assurance of samples, some Quality Control chemists are responsible for calibrating and performing maintenance on lab equipment.

This occupation should not be confused with that of ANZSCO 251512 Industrial Pharmacist, an occupation that involves undertaking research, testing and analysis related to the development, production, storage, quality control and distribution of drugs and related supplies.

## Supporting material for assessment

When applying for a Skills Assessment, please ensure you submit sufficient evidence supporting proof of identity, qualification and employment claims. A full list of the documents required can be found on the VETASSESS website under Eligibility Criteria.

You may provide additional evidence supporting your role such as summary brief for grant applications or similar project, research articles or conference proceedings, laboratory reports, patents and list of research projects outlining your responsibilities.