VETASSESS

Information sheet

# Physicist

ANZSCO: 234914

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 Physicist studies matter, space, time, energy, forces and fields and the interrelationship between these physical phenomena to further understanding of the laws governing the behaviour of the universe, and seeks to apply these laws to solve practical problems and discover new information about the earth and the universe.

## Occupations considered suitable under this ANZSCO code:

- Astronomer

## Occupations not considered under this ANZSCO code:

- Medical Physicist*

*VETASSESS is not the authorised assessing body for this specialisation

# Physicist 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.

| GROUP A | Criteria for a suitable Skills Assessment | | |
|---|---|---|---|
| | Comparable Bachelor degree AQF level | With highly relevant major field of study | Relevant employment duration |
| 1 |   + |  + |   |
| Pre-qualification methodology does not apply to Group A occupations | | | |

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 occupation requires a qualification in the following fields; Physics, Astrophysics, Engineering (Physics), Nuclear Physics, Computational Physics.

*This includes qualifications assessed at AQF Bachelor, Master and Doctoral level.

## Employment

Highly relevant tasks include:

- Studying matter, space, time, energy, forces and fields and the interrelationship between these physical phenomena to further understanding of the laws governing the behaviour of the universe.
- Developing analytical methodologies and techniques to investigate the structure and properties of matter, the relationships between matter and energy, and other physical phenomena.
- Testing the reliability of these methodologies and techniques by performing tests and experiments under various conditions.
- Preparing scientific papers and reports, or supervising their preparation.
- Supervising and co-ordinating the work of Technicians and Technologists.
- May specialise in one or more branches of physics such as electrical, luminescent, mechanical, magnetic, radioactive, molecular, nuclear, ionospheric, atmospheric physics and signal analysis.
- Using knowledge and/or technology developed from their work to develop new materials, products and processes for use in industry, medicine, defence and other areas of research and development.
- Seeking to apply laws governing the behaviour of the universe to solve practical problems and discovering new information about the earth and the universe.

## Employment information

Physicists work in both theoretical and applied fields. Theoretical Physics is the investigation and research of Physics concepts and methods, including improving and creating new laws. Applied Physics is the application of knowledge and technology to solve real world problems in a range of industries.

Physicists work in several industries, including academic, military, engineering, computing, electronics, finance, manufacturing, medicine, astronomy and more.