Information sheet

PHYSICIST

(ANZSCO Code: 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, Skills and Employment.
- 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.

Applicants must also have at least one year of highly relevant, post-qualification employment, at an appropriate skill level completed in the last five years. A positive assessment of both qualifications and employment is required for a positive Skills Assessment Outcome.

Qualification and employment criteria

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

*** Additional qualifications in a highly relevant field of study include those comparable to the following levels:**

AQF Diploma
AQF Advanced Diploma
AQF Associate Degree or
AQF Graduate Diploma

**** Highly relevant paid employment duration (20 hours or more per week):**

one year of post-qualification paid employment (20 hours or more per week) highly relevant to the nominated occupation, at an appropriate skill level in the last five years before the date of application for a Skills Assessment.

Qualification

AQF Bachelor degree or higher degree*

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.