

CAREER FACT SHEET

Cartographers and Surveyors

Snapshot

Cartographers and Surveyors apply scientific and mathematical principles to design, prepare and revise maps and charts, plan, direct and conduct survey work to determine, delineate, plan and precisely position tracts of land, natural and constructed features, coastlines, marine floors and underground works, and manage related information systems

How many are employed in this occupation?	15,800
What are the average weekly earnings for full time workers?	\$1,907
How does unemployment compare with other occupations?	Average
What are the job prospects for this occupation?	Medium
What will be the likely future employment growth for the next five years?	High Growth

Main employing industries

Professional, Scientific and Technical Services; Public Administration and Safety; Mining; Construction

Tasks

This occupation may include associated occupations with varying tasks.

- designing and compiling map manuscripts using digital and graphical source material, including aerial photographs, satellite imagery, survey documents, existing maps and records, reports and statistics
- advising surveyors and other professionals on the data requirements for map production, and on the aesthetic, technical and economic considerations of scales, details to be illustrated, place names and reproduction techniques
- supervising and coordinating the work of cartographic technicians in the production and reproduction of maps
- determining the position of points of interest on the earth's surface including marine floors, and preparing the final product data in digital form
- supervising the preparation of plans, maps, charts and drawings to give pictorial representations and managing automated spatial information systems
- undertaking research and development of surveying and photogrammetric measurement systems, cadastral systems and land information systems
- planning and designing land subdivision projects and negotiating details with local governments and other authorities
- advising architects, engineering professionals, environmental and other scientists or other relevant professionals on the technical requirements of surveying, mapping and spatial information systems
- compiling and evaluating data, interpreting codes of practice, and writing reports concerning survey measurement, land use and tenure
- preparing site plans and survey reports required for conveyancing and land ownership matters

INDUSTRY OVERVIEW

Professional, Scientific and Technical Services

If you aspire to hold a highly responsible, skilled, professional position then you should explore the possibilities to be found in the Professional, Scientific and Technical Services Industry. This diverse industry primarily supports other services by providing a range of specialist, formal skills. However, you don't need to jump right into becoming a fully certified Accountant or Solicitor straight away. Many successful employees in these occupations worked their way up to becoming fully qualified; combining work experience in support roles with on-the-job training to gain a thorough understanding and skills base for their chosen profession. Legal and Accounting Services as well as Computer System Design are some of the fields in this sector predicted to have strong job prospects.



Professional, Scientific and Technical Services

Possible job pathways

- Barristers
- Architects and Landscape Architects
- Accounting Clerks
- Auditors and Company Secretaries
- Bookkeepers
- Economists
- Finance Managers
- Financial Investment Advisers and Managers
- Actuaries, Mathematicians and Statisticians
- Conveyancers and Legal Executives
- Court and Legal Clerks
- Human Resource Managers
- Office Managers
- Solicitors
- Cartographers and Surveyors
- Construction Managers
- Computer Network Professionals
- ICT Managers
- ICT Support Technicians
- Software and Applications Programmers
- Telecommunications Engineering Professionals
- Civil Engineering Draftspersons and Technicians
- Civil Engineering Professionals
- Electrical Engineers
- Engineering Managers
- Industrial, Mechanical and Production Engineers
- Mining Engineers
- Mechanical Engineering Draftspersons, Technicians
- Science Technicians
- Marine Transport Professionals
- Veterinarians
- Artistic Directors, Media Producers & Presenters
- Photographers
- Public Relations Professionals
- Environmental Scientists
- Life Scientists
- Interior Designers
- Multimedia Specialists and Web Developers

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