

Drafting Technologists and Technicians

Description

Drafting technologists and technicians prepare engineering designs, drawings and related technical information, in multidisciplinary engineering teams or in support of engineers, architects or industrial designers, or they may work independently. They are employed by consulting and construction companies, utility, resource and manufacturing companies, all levels of government and by a wide range of other establishments.

Duties:

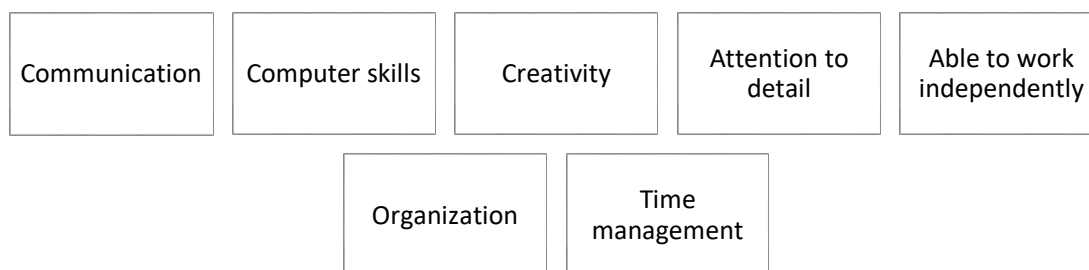
- Drafting technologists
 - Develop and prepare engineering designs and drawings from preliminary concepts, sketches, engineering calculations, specification sheets and other data
 - Operate computer-assisted design (CAD) and drafting workstations
 - Develop and prepare design sketches
 - Complete documentation packages and produce drawing sets
 - Check and verify design drawings to conform to specifications and design data
 - Write technical reports
 - Prepare contracts and tender documents
 - Prepare construction specifications, costs and material estimates
 - Supervise and train other technologists, technicians and drafters.
- Drafting technicians
 - Develop and prepare engineering drawings, plans, diagrams or layouts from sketches
 - Operate computer-assisted drafting equipment or a conventional drafting station.

Other titles:

- structural steel drafter-detailer
- drafting office supervisor
- architectural draftsman
- design and drafting technologist
- draftsman
- electrical draftsman
- electromechanical draftsman
- electronic draftsman
- structural draftsman
- engineering design and drafting technologist
- computer-assisted drafting (CAD) technician
- mechanical draftsman

(Government of Canada National Occupation Classification)

Skills



Education/Training Requirements

Ontario Secondary School Diploma (OSSD)

- Most college/university programs in Ontario require an OSSD or Mature Student Status

Post-secondary diploma/degree

- Completion of a two- to three-year college program in engineering design and drafting technology or in a related field is usually required for drafting and design technologists.
- Completion of a one- to two-year college program in drafting OR completion of a three- to four-year apprenticeship program or four to five years of related experience plus completion of college or industry courses in drafting are usually required for drafting technicians.

Certification

- Trade certification for draftspersons is available, but voluntary in Ontario.
- Certification in engineering design and drafting technology or in a related field through provincial associations of engineering/applied science technologists and technicians may be required by employers.
- A period of supervised work experience, usually two years, is required before certification.

Potential Earnings in Durham Region

The average and median wages and salaries for individuals employed as drafting technologists and technicians are as follows. Place of Residence (POR) is defined as individuals who reside within the Durham Region. Place of Work (POW) is defined as individuals who are employed within the Durham Region.

Median Wages and Salaries (POR)	Average Wages and Salaries (POR)	Median Wages and Salaries (POW):	Average Wages and Salaries (POW)
\$40,928	\$42,564	\$48,252	\$49,674

Employment Prospects

Industry (NAICS)	Jobs in Durham Region (POW)	Durham Region Residents Employed (POR)
5413 Architectural, engineering and related services	145	125

(Ministry of Advanced Education and Skills Development 2016 data in Durham Workforce Authority's 2017 Sector Report)

Additional Resources

- The Ontario Association of Certified Engineering Technicians and Technologists:
<https://www.oacett.org/>