

Technical Exam Disciplines

Applicants for certification who are not graduates of an academic program accredited by Technology Accreditation Canada ([TAC](#)) must pass the ASET Technical Exam (formerly Certification Exam) to verify competency at the technologist level. Applicants are assigned the ASET Technical Exam based upon the discipline that the applicant selects in the initial application process, which typically corresponds to the applicant's academic program and/or work experience (field of practice/occupation).

If the application discipline is Architectural, Civil, Construction, Mechanical, Electrical, Electronics, Engineering Design and Drafting Technology, Instrumentation, or Petroleum, the corresponding discipline-specific technical exam will be assigned in the initial application.

For all other application disciplines, the applicant will be assigned the Fundamentals of Technology Exam, which is a multi-disciplinary exam based on the competency areas fundamental to technologist-level practice (chemistry, physics, math, and statistics). Applicants in these disciplines may request assignment of one of the discipline-specific exams instead of the Fundamentals of Technology Exam when there is overlap in the competency areas for each discipline.

The following table outlines the technical exam options associated with each of the twenty-one disciplines currently recognized by ASET.

Applicant Discipline	Related Fields of Practice/Occupations	Technical Exam Options
Architectural	Architectural Technology Landscape Architectural Technology	Architectural OR Civil (must be requested) Construction (must be requested)
Biomedical	Biomedical Engineering Technology	Fundamentals of Technology OR Electronics (must be requested) Electrical (must be requested)
Bioscience	Biological Laboratory Technology Biological Sciences Technology Food Sciences Technology	Fundamentals of Technology
Chemical	Chemical Sciences Technology Chemical Laboratory Technology	Fundamentals of Technology
Chemical Engineering	Chemical Engineering Technology	Fundamentals of Technology
Civil	Civil Engineering Technology Municipal Engineering Technology Structural Engineering Technology Transportation Engineering Technology	Civil OR Construction (must be requested)

Construction	Construction Engineering Technology	Construction OR Civil (must be requested)
Electrical	Electrical Engineering Technology Power Generation and Distribution Technology	Electrical
Electronics	Avionics Engineering Technology Broadcast Engineering Technology Computer Engineering Technology Electronics Engineering Technology Electronic Systems Technology Network Engineering Technology Power Engineering Technology Telecommunications Engineering Technology	Electronics
Engineering Design and Drafting	Engineering Design and Drafting Technology Process Piping Drafting Technology	Engineering Design and Drafting Technology
Environmental	Environmental Engineering Technology Environmental Protection Technology Hazardous Waste Management Technology Pollution Control Technology Reclamation and Remediation Technology Renewable Resources Technology Hydrometric Technology Water and Wastewater Technology	Fundamentals of Technology
Geological and Geophysical	Hydrogeological Engineering Technology Geological Engineering Technology Geophysical Engineering Technology Mining and Mineral Engineering Technology	Fundamentals of Technology
Industrial	Industrial Engineering Technology Manufacturing Engineering Technology	Fundamentals of Technology OR Mechanical (must be requested) Electronics (must be requested)
Information	Computer Programming Technology Computer Systems Technology Software Engineering Technology	Fundamentals of Technology

Instrumentation	Industrial Controls Technology Instrumentation Engineering Technology	Instrumentation OR Electrical (must be requested) Electronics (must be requested)
Materials Engineering	Materials Engineering Technology	Fundamentals of Technology OR Mechanical (must be requested)
Mechanical	Aeronautical Engineering Technology Building Systems Engineering Technology Marine Engineering Technology Mechanical Engineering Technology Robotics and Automation Engineering Technology	Mechanical
Nanotechnology	Nanotechnology Systems	Fundamentals of Technology OR Mechanical (must be requested) Electronics (must be requested)
Petroleum	Petroleum Engineering Technology	Petroleum
Survey and Geomatics	Survey Engineering Technology Geomatics Engineering Technology	Fundamentals of Technology OR Civil (must be requested) Electronics (must be requested)
Welding Engineering	Welding Engineering Technology	Fundamentals of Technology OR Mechanical (must be requested)