

INSTRUMENT TECHNICIAN

First-year Apprentice Learning Plan

**Please indicate in the appropriate course column the skills to be focused on in this 125-hour course.
Feel free to add skills specific to your work site.**

Trade Skills and Tasks	RAP 15 125 hrs	RAP 25A 250 hrs	RAP 25B 375 hrs	RAP 25C 500 hrs	RAP 35A 625 hrs	RAP 35B 750 hrs	RAP 35C 875 hrs	RAP 35D 1000 hrs
	RAP 4132	RAP 5132	RAP 5133	RAP 5134	RAP 6132	RAP 6133	RAP 6134	RAP 6135
Demonstrates basic calculation and measurement specific to trade (metric/imperial)								
Installs measurement and control systems for industrial processes								
Applies accident prevention principles, practices and techniques								
Determines work to be performed, materials and equipment required								
Examines suitability of existing supports, brackets, clamps and adapters for installing new instruments in existing locations								
Modifies existing support equipment or designs, and fabricates and installs new support equipment								
Installs and/or removes instruments on existing installations								
Installs or examines, removes and replaces pneumatic tubing in existing installations								
Installs, examines, disconnects and connects electrical wiring to existing instrument installation								
Installs or examines, disconnects and connects fibre optic cable								
Maintains, services and/or installs components of air distribution systems								
Inspects and tests new instruments								
Identifies and incorporates modifications to instrument systems, subsystems or components								
Installs, services, calibrates and maintains equipment for calibration, reference or comparison standards								
Process Measurement Sensing and Indicating Systems – fabricates, installs, removes, tests, services and calibrates								
Analytical Instrumentation – Special Applications – installs, removes, tests, services and calibrates								
Signal Conversion and Transmission – installs, removes, services and calibrates								
Data Acquisition and Display Systems – installs, removes, tests, services and calibrates								
Monitoring Devices and Alarm Systems – installs, removes, services tests and calibrates								
Control Devices and Computers – installs, removes, services, tests and calibrates								
Control Systems – adjusts single loop, multi loops, cascade, ratio and feed forward control systems, tests, calibrates and maintains components								
Final Control Elements – installs, removes, services, tests and calibrates								
Other Systems and Equipment – installs, removes, services, tests and calibrates								

Note: These skills and tasks are taken directly from the *Apprenticeship and Industry Training Record Book* (Blue Book) as a general guideline of the training required for a first-year RAP student.

Employer's Signature

Student's Signature

Off-campus Coordinator's Signature