

Technical Training Resource List

This information is for counselling purposes only. As technical training resources are updated frequently, **apprentices are advised not to purchase any items listed below until after meeting their instructor on the first day of class.** The resources listed below may be purchased from the technical training provider offering the program.

A. Required for Technical Training

For All Four Periods

1. [Trade Course Outline](#)
2. Institutional Note Packages and Reference Materials.
3. Learning Modules (Developed by SAIT)

First Period

1. Pneumatic Instruments Lab Manual
2. Workshop Practices
3. Basic Electricity, N.A.I.T.
4. IPT Pipe Trades Handbook, R. Lee
5. Introduction to W.H.M.I.S.
6. Basic Technical Physics, Second Edition by Paul E. Tippens, McGraw – Hill
7. Instrumentation Mechanics Math/Physics
8. Electronic Fundamentals, Circuits and Devices, 5th Edition (ISBN: 0-1308-5236-8)
9. Introductory Electric Circuits by Robert R. Paynter, Prentice – Hall (ISBN: 0-0239-2500-0)
10. Hazardous Locations - A Guide for the Design, Construction and Installation of Electrical Equipment in Explosive Atmospheres, John A. Bossert, CSA (ISBN: 0-0239-2402-0)

Second Period

1. Measurement and Control Instruments - Pneumatics
2. Process Measurement and Analysis, Third Edition, Bela G. Liptak, Chilton Publishing
3. Process Equipment
4. Electronics
5. Digital Fundamentals

Third Period

1. Basic Chemistry, Seventh Edition by Seese and Daub, Prentice - Hall
2. Process Measurement and Analysis, Third Edition, Bela G. Liptak, Chilton Publishing
3. Process Measurement - Theory
4. Process Measurement - Lab Manual
5. Analytical Instrumentation
6. Applied Electronics
7. Process Analyzer Technology by Kenneth J. Clevett, Wiley, John & Sons (ISBN: 0-4718-8316-6)

Fourth Period

1. Process Control Notes
2. Process Control Lab Manual
3. Analytical Instrumentation
4. Advanced Digital Equipment
5. Successful Instrumentation Applications, First Edition by Bob Connell
6. Process Measurement and Analysis, Third Edition by Bela G. Liptak, Chilton
7. Logix Pro – The Learning Pit
8. Programmable Logic Controllers by Frank D. Petruzella, Glencoe McGraw Hill (ISBN: 0-0280-2661-6)
9. Interprovincial Standards Red Seal Program “**Instrumentation and Control Technician**” [National Occupational Analysis \(NOA\)](#).