

INSTRUMENTATION AND CONTROL TECHNICIAN Level One Examination Information

The **Instrumentation and Control Technician** trade level examinations are developed by the Apprenticeship and Trade Certification Commission in co-operation with a committee of worker and employer representatives selected from industry. The pass mark is 70%. Apprentices may challenge this exam only once. Examination content is based on the expectations and standards for Saskatchewan apprentices as follows:

Subject	Percent
Physics	4%
Instrument Measurement	47%
Basic Electronics	38%
Safety and Shop Practice	11%
Total	100%



Study all areas of the trade in preparing for the examination.

To assist you, a list of reference textbooks is provided below. Note that ISBN numbers are subject to change. Please consult with your supplier to access their most current version of the text you are acquiring. It is not necessary to use these specific textbooks; you may find others which will be equally beneficial. You are encouraged to seek additional reference materials in all test areas.

Physics by Tippens, pub. McGraw-Hill. ISBN 978-0073222707.

Instrument Engineer's Handbook: Process Measurement and Analysis by Liptak.

ISBN 978-0849-3108-36.

Instrument Engineer's Handbook: Process Control and Optimization by Liptak.

ISBN 978-0849-3108-12.

Instrument Engineer's Handbook: Process Software and Digital Networks by Liptak.

ISBN 978-0849-3108-29.

Fundamentals of Industrial Control by Coggan, pub. ISA. ISBN 978-1556178634.

*Electronics Fundamentals: Circuits, Devices and Applications by T.L. Floyd. ISBN 978-0135072950.

Metalwork: Technology and Practice by V. Repp, pub. McGraw-Hill. ISBN 978-0026764841.

(*Any fundamental electronics text book that covers basic circuits, transistors and operational amplifiers would be suitable)

Unless otherwise noted, books listed here are available through the Saskatchewan Polytechnic Bookstore Call Centre: 1-866-569-8398.

NOTE: Textbooks **are not** usually available from libraries. When texts are being purchased, candidates should allow several weeks for delivery and several weeks for studying.

VISIT OUR WEB SITE!

www.saskapprenticeship.ca

Absolutely no cell phones, communication devices or PDAs are allowed in the examination facility. You will be required to leave immediately if any of these items are found on your person.

Important information regarding calculators – please note that due to increasing security issues, candidates are no longer permitted to bring their own calculators to the exam facility. Instead, we will be supplying each candidate with a calculator. Please refer to the “Forms” section of our web page for further information.

Please note that examinations and study information change frequently. The most recent information is available on our web site at www.saskapprenticeship.ca