

## ELECTRONICS ASSEMBLER

### Provincial Journeyman Examination Information

<b>Apprentice Requirements:</b>	2 years and 3600 hours
<b>Tradesperson Requirements:</b>	3 years and 5400 hours
<b>Practical Examination:</b>	Yes

The provincial journeyman examination for this trade is developed by a committee of worker and employer representatives. The content for this examination is drawn from the Provincial Occupational Analysis (POA) and is based on industry's standards and expectations.

You can download and print a free copy of the POA from the Saskatchewan Apprenticeship website by visiting [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

To write the provincial journeyman examination, you must either successfully complete an apprenticeship training program or meet tradesperson eligibility requirements. The pass mark is 70%.

There is a written examination and a practical examination. You must pass the written examination before you apply for the practical.

Subject	Percent
<b>Prepares for Production:</b> follows company policies and production flow requirements, identifies materials and components, interprets documentation, follows ESD procedures	30%
<b>Produces Circuit Cards:</b> builds cards as required, hand solders circuit cards using tin/lead and lead free technology, machine solders circuit cards, cleans cards after production, applies environmental coatings	30%
<b>Produces Cables, Wires and Harnesses:</b> prepares cables, terminates cables, assembles harnesses	21%
<b>Assembles Chassis and Racks:</b> prepares chassis, sub-assemblies and racks, installs components	14%
<b>Tests Products:</b> uses multimeter, uses basic electronic test equipment and automated test/programming software	5%
	100%

## **Suggested trade resources when 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.

Below list as of May, 2018:

- IPC-A-610G: Acceptability of Printed Board Requirements
- IPC-J-STD-001G: Requirements for Soldered Electrical and Electronic Assemblies
- IPC-DRM-18J: Component Identification and Reference Guide
- IPC/WHMA-A-620C: Requirements and Acceptance for Cable and Wire Harness Assemblies

These books are available from the IPC website, [www.ipc.org](http://www.ipc.org)

An electronics assembly text is also recommended. One suitable text is:

- Electronics Techniques: Shop Practices and Construction 7<sup>th</sup> edition by Villanucci pub Prentice-Hall ISBN 9780130195661

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.

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](http://www.saskapprenticeship.ca)