



INDUSTRIAL MECHANIC (Millwright) Interprovincial Journeyperson Examination Information

Apprentice Requirements:	4 years and 7200 hours
Tradesperson Requirements:	6 years and 10 800 hours
Practical Examination:	No

The interprovincial (IP) journeyperson examination for this trade is developed by a national committee of worker and employer representatives. The content for IP Examinations is drawn from the Red Seal Occupational Standard (RSOS) for that trade, and is based on industry's standards and expectations. You can download and print a free copy of the RSOS from the Red Seal website by visiting www.red-seal.ca.

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

Subject	Percent
Performs Common Occupational Skills: maintains tools and equipment; organizes work; performs routine trade tasks; performs measuring and layout; uses cutting and welding equipment; prepares for installation and maintenance of components and systems.	19%
Performs Rigging, Hoisting/Lifting and Moving: plans lift; hoists load; inspects and maintains rigging, hoisting and lifting equipment.	13%
Services Mechanical Power Transmission Components and Systems: services prime movers; services shafts, bearings and seals; services couplings, clutches and brakes; services chain and belt drive systems; services gear systems.	23%
Services Material Handling/Process Systems: services fans and blowers; services compressors; services pumps; services conveying systems; services process tanks and containers.	18%
Services Fluid Power Systems: services hydraulic systems; services pneumatic and vacuum systems.	15%
Performs Preventive and Predictive Maintenance, Commissioning and Decommissioning: performs preventive and predictive maintenance; performs specialized testing and analysis; commissions equipment.	12%
	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.

- Advanced Hydraulics HYDR 400/401 Course Pack Code 20171421
- Advanced Pneumatics B INDM 404/405 Course Pack Code 20171483
- Balancing 160403b NAIT Version 21.0 Code 20286194
- Belt, Conveyors NAIT Version 21.0 160405A Code 20127688
- Belts, Chains, Gears INDM 200/201 Course Pack Code 20171292
- Chain, Bucket and Screw Conveyors NAIT Version 21.0 160405b Code 20127701
- Communication Course Manual SAFE 100 Code 20297619
- Couplings, Clutches, Brakes and Gear Systems BRAK 208-209 Course Pack Code 20316808
- Crane and Rigging Manual IPT ISBN 978092800034
- Fluid Power Data Book Code 20019471
- Gas Turbines NAIT Version 21.0 160402b Code 20122874
- GMAW Arc Welding WLDR 200/201 Course Manual Code 20316884
- High Pressure Boilers and Accessories Version 21.0 070305D Code 20110277
- High Pressure Boilers and Auxiliary Equipment Version 21.0 070305F Code 20110314
- Industrial Fasteners Training Manual IPT ISBN 9780920855126
- Industrial Hydraulics Training Manual IPT SBN 9780920855409
- Industrial Hydraulics Training Manual Eaton ISBN 9780692532102
- Industrial Trades Power Transmission Training Manual IPT ISBN 9780920855706
- Industrial Mathematics – all levels
 - Math 108 Code 20012960
 - Math 201 Code 20030544
 - Math 300 Code 20031008
 - Math 400 Code 20009588
- Interpreting Engineering Drawing Jensen ISBN 9780176531515
- Introduction to the GTAW Process A120202A Code 20309398
- Layout and Hand Cut Tools TOOL 110/111 Course Pack Code 20171674
- Low Pressure Steam Boilers Version 21.0 070201B Code 20082048
- Lubrication and Levelling MCHN 200/201 Course Pack Code 20316723
- Machinery Condition Monitoring and Analysis Part B 160403b NAIT Version 21.0 Code 20286170
- Maintenance Planning NAIT Version 21.0 160403d Code 20141240
- Material Handling MATE 400/401 Course Pack Code 20171506
- Metallurgy Course METL 102/103 Pack Code 20171636
- Millwright Manual Custom Pub 7960003848 Province of BC Code 20202408
- Millwright Manual Custom 2018 7960003850 Province of BC Code 20304034
- Millwright Manual Custom Kit 1 7960009052 Province of BC Code 20298074
- Millwright Manual Study Guide M100684 Order 796003066 Code 20057695
- Modern Metalworking Student Workbook Walker ISBN 9781631263422
- Modern Metalworking Walker ISBN 9781631263415
- Oxyfuel Welding and Oxyfuel Cutting OFW and OFC Code 20170196
- Oxyfuel Welding and Oxyfuel Cutting Weld OFW and OFC Code 20170196
- Plasma Cutting and Gouging 120101J Version 4.2 Code 20084561
- Pneumatic Equipment Pneumatic Systems Book 739 & 436 Code 20290122
- Precision Measuring Assemble Tools Fasteners & Threading MEAS 102/103 Course Pack Code 20171612
- Shaft Alignment INDM 400/401 Course Pack Code 20171445
- Stationary Engine Fundamentals NAIT Version 21.0 160401A Code 20123338
- Steam Prime Movers & Preventative Maintenance INDM 402/403 Course Pack Code 20171469
- Technical Drawing Harmonized PRNT 102 Course Pack Code 20184445

- Technical Drawing PRNT 203 Course Pack Code 20298814
- Technical Drawing PRNT 403 Course Pack Code 201715020
- Rigging, Hoisting and Lifting RIGG 101/102 Course Pack Code 20171650
- Rigging Handbook Klinke ISBN 978188724189
- Rotating Equipment Training Manual IPT ISBN 9780920855287
- Rough Alignment and Dial Alignment ALGN 200/201 Course Pack Code 20316808
- Roller and Pneumatic Conveyors 160405c NAIT Version 21 Code 20297077
- Saskatchewan Employment Act Occupational Health and Safety Publications Saskatchewan Code 20282721
- SMAW Arc Welding WLDR 200/201 Course Manual Code 20316860
- Stationary Engine Fundamentals Version 21.0 160401A Code 20123338
- Steam Turbines Part A Version 21.0 160402aA Code 20122836
- Steam Turbines Part B Version 21.0 160402aB Code 20122850
- Shaft, Keys, Seals, Bearings TRNM 208/209 Code 20323769

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

Individual Learning Modules (ILMs) for the Industrial Mechanic (Millwright) trade may be ordered through the Saskatchewan Polytechnic Bookstore Call Centre: 1-866-569-8398 or through www.tradesecrets.org/ under Millwright.

Modules for the Industrial Mechanic (Millwright) trade developed by the Industry Training Authority of British Columbia are also available at: https://www.crownpub.bc.ca/Product/Listing/13503_BC-Trades?WT.ac=hpsl_BCtrades under Millwright.

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.

Red Seal Examination preparation resources:

To assist in the understanding of the development of all Interprovincial Red Seal examinations, Employment and Social Development Canada (ESDC) has developed the following information.

- A short video explaining the role of an occupational standard in the development of a Red Seal examination can be accessed on the Red Seal website at the following link: <http://www.red-seal.ca/resources/wh.1t.3sn.4.1-eng.html>
- The Getting Ready for the Examination document can be accessed through the Red Seal website at the following link: <http://www.red-seal.ca/docms/getready-eng.pdf>
- Red Seal examination sample questions can be accessed on the Red Seal Website at the following link: http://www.red-seal.ca/resources/s.1mpl.2_q.5.2st.3.4ns-eng.html

Use of cell phones, electronic imaging/recording or communication equipment is **not** permitted. You will be required to leave immediately if any of these items are found on your person.

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