

Machinist

Practical Examination Information

Candidate Information Sheet

- 1) There is a written and a practical component to the Machinist Journeyperson examination. With the exception of apprentices attending the final level of technical training, the written examination must be completed successfully before applying for the practical examination. Personal calculators are permitted during this practical examination.
- 2) The practical examination consists of two parts: (1) completing a project that involves the use of both a lathe and milling machine (refer to the final page of this document for examples, and (2) sharpening a twist drill for use on mild steel.
- 3) You **must** bring the following to the examination:

- ☐ 2 - pre-ground HSS tool bits: one for machining a 60° UNC thread, and one for cutting a 90° 1/16 in. radius fillet. Blank sizes are 3/8 in. for exams in Regina and 5/16 in. for exams in Saskatoon. Carbide turning and parting tools will be provided by the training facility. Refer to the drawings on the final page of this document for guidance.
- ☐ 1 - 6 in. machinist scale
- ☐ 1 - 8 in. inside and outside vernier/dial/digital caliper accurate to .001 in.
- ☐ 1 - 0 in. to 1 in. outside micrometer accurate to .001 in.
- ☐ 1 - 1 in. to 2 in. outside micrometer accurate to .001 in.
- ☐ 1 - centre gauge
- ☐ 1 - dial indicator. Candidates may bring their own dial indicator with either a magnetic stand or magnetic back. Dial indicators with magnetic stands will also be provided at the testing facility.
- ☐ 1 - screw pitch gauge
- ☐ 1 - pen or pencil
- ☐ 1 - pair of safety glasses, work clothing, and **this sheet of instructions**

NOTE: Candidates are permitted to use only highspeed steel and carbide tools, along with 1018 cold-rolled mild steel or 4140 annealed steel stock. The training facility will provide left- and right-hand carbide tool holders and inserts. Digital read-outs on lathes and milling machines are allowed.

- 4) The duration of this examination is **6 hours**. Pre-examination instructions delivered by the marking committee are not included in this time. Candidates will receive a 30-minute lunch break, which is also excluded from the 6-hour exam period.

- 5) The machines used to do this examination are vital to the training programs of the test facility. The examining officer has the authority to **STOP AND DISCONTINUE** a candidate's test at any time if physical injury or mechanical damage may result from its continuance.
- 6) Verbal abuse directed at any individual within the examination facility will not be tolerated under any circumstances. Any such behavior will result in the immediate termination of the candidate's examination attempt at the expense of the candidate.

The use of cell phones, electronic imaging/recording or communication devices is strictly prohibited during the examination. Possession of any such items will result in immediate removal from the examination area.

Personal calculators are permitted for use during the practical examination.

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

YOU WILL BE ASSIGNED ONE OF THESE PROJECTS

