

TOOL AND DIE MAKER

Credential Issued:

ITA Certificate of Qualification (Tool and Die Maker)

Inter-Provincial Red Seal Endorsement (Tool and Die Maker)

(Persons completing a formal apprenticeship also receive a Certificate of Apprenticeship)

Occupational Description:

“Tool and Die Maker” means a person who makes, repairs and tests dies, cutting tools, jigs, fixtures, moulds, gauges and special hand tools by laying out, setting-up, machining, fitting and finishing metal stock and castings.

Program Duration & Structure:

The program will be delivered in a variety of formats combining in-school and work-based training, all designed to meet the competency standards and profile defined by the industry, and will generally take 1 years to complete. The program includes:

- In-school: 10 weeks
- Work-based: 3,300 hours
(Up to 1,650 Tool and Die Maker hours may be recognized as prior learning acquired during the Machinist apprenticeship. These must be Tool and Die Maker specific hours).

*The in-school / technical training requirement is typically met through block release training delivered by an ITA approved training provider. It can also be met through approved alternative training models (e.g. distance education, part-time) and / or level challenge exam where these options are available.

Program Completion Requirements:

Completion of a minimum of 3,300 workplace hours (up to 1,650 may be assessed as prior learning)

- Recommendation for Certification signed by the Sponsor and certified Tool & Die Maker or holder of an ITA-issued letter authorizing supervision and sign-off of apprentices in the trade.

Completion of technical training:

- In school assessments (practical and theoretical)

Inter-Provincial Red Seal Examination

Program Challenge Requirements:

- A minimum of 12,375 documented hours of work experience required to challenge Inter-Provincial Red Seal examination. Hours may be a combination of Machinist and Tool and Die Maker hours. At least 4,950 hours MUST be Tool and Die specific).

Program Pre-requisites:

- Machinist Certificate of Qualification with a Red Seal Endorsement

Assessment Methods:

- In-school assessments (practical and written exams)
- Work-based assessments (practical)
- Final Assessment (Inter-Provincial Red Seal written examination)

Linkages to Other Credentials:**Cross Program Credit**

- There are no cross program credits available

Prior Learning Assessment:

- Up to 1,650 Tool and Die Maker work based hours may have been acquired during a Machinist apprenticeship and evaluated as prior learning.

Program Standards Documentation:

- National Occupational Analysis – Tool and Die Maker (2005) www.red-seal.ca
- Tool and Die Maker Program Outline

Industry Program Standards Mechanism:

Resource Industry Training Organization (RTO) info@rtobc.com

Program Providers:

Institution-based component of the program is delivered by public post-secondary institutions (see www.educationplanner.bc.ca/apprenticeship.cfm for a list of schools), private training institutions, and secondary schools that have been approved by ITA .

Technical Training Content:

Trade Math
Specialized Measuring Devices
Machine Operations and Maintenance for Tool and Die Making:

- Drills
- Lathes
- Mills
- Grinders and Abrasives
- EDM Machines

Specialized Metallurgy
Prototyping
Design and Build Jigs and Fixtures
Design and Build Dies
Design and Maintain Moulds

IP Examination Competencies: (2005)

- A. Occupational Skills
- B. Machine Setup and Operation
- C. Prototypes
- D. Metallurgy and Materials
- E. Jigs, Fixtures and Dies

Approved: March 2002 (ITAC)
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