RIG TECHNICIAN

Occupation Description

“Rig Technician” means a person who operates oil and gas drilling rigs, with job duties as follows:

Rig Technician (Level 1 - Motorhand)
Maintain drilling rig engines, transmissions, heating systems, diesel electric generators and motors, hydraulic systems, and other mechanical equipment. Maintain equipment logs and preventative maintenance records as required. Monitor inventories of fuel, oil fitters, lube oils, greases and other service items. Supervise training and activities of floorhands and laborers, ensuring they work safely and efficiently. Participate in rig mobilization and de-mobilization (Rig-up and tear-out).

Rig Technician (Level 2 – Derrickhand)
Operate and maintain drilling fluid systems and pumps during drilling. Mixing fluid chemicals and additives as required by the program. Handle sections of drill string assembly from a platform on the rig derrick during tripping operations. Monitor and record mud flows and volumes and fluid properties (i.e., Mud weight). Work under the direction of the Rig Technician and assist with crew supervision, ensuring the crew work safely and efficiently. Participate in rig mobilization and de-mobilization (Rig-up and tear-out).

Rig Technician (Level 3 – Driller)
Operate the draw-works, rotary equipment and pumps and supervise the assembly of drill string. Ensure that safety and support equipment is functioning properly. Monitor the progress of the drilling operation and communicate with well-site supervisors. Keep a current record of drilling progress. Train crew members. Introduce procedures which may help the crew to work more safely and effectively. Supervise rig mobilization and de-mobilization (rig-up and tear-down).

For detailed information on the scope of knowledge and skills taught and assessed in this program refer to the Rig Technician Red Seal Occupational Standard, available on the Red Seal website.

Pathways to Certification

In BC, an individual can become certified as a Rig Technician by challenging the certification. Challenge programs are for individuals who have extensive experience working in the occupation and wish to challenge the certification.

Prerequisites to Challenge

The prerequisite to entering the challenge pathway is 6,750 documented hours of directly related experience working in the occupation, with a minimum of 1,000 hours performing Rig Technician Level 3 work.

ITA Registration

Those who wish to challenge the Rig Technician certification must complete the Rig Technician Challenge Application and submit it to ITA. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the Challenge pathway.
Challenge Pathway
This graphic provides an overview of the Rig Technician challenge pathway.

\[ C \text{ of } Q = \text{Certificate of Qualification} \]

**Challenge Program Standards**

<table>
<thead>
<tr>
<th>Credentials Awarded</th>
<th>Rig Technician– Certificate of Qualification with Red Seal Endorsement</th>
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</thead>
<tbody>
<tr>
<td>ITA Registration Prerequisites</td>
<td>An approved Challenge Application, which includes:</td>
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<td></td>
<td>- 6,750 documented hours of directly related experience working in the occupation, with a minimum of 1,000 hours performing Rig Technician Level 3 work</td>
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<tr>
<td>Credit for Prior Learning</td>
<td>Individuals who hold the credentials listed below are considered to have met or partially met the prerequisites for challenging this program</td>
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<tr>
<td>Credential</td>
<td>Credit(s) Granted</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Completion Requirements</td>
<td>Certification as a Rig Technician is awarded upon successful completion of:</td>
</tr>
<tr>
<td>Requirement</td>
<td>Level of Achievement Required</td>
</tr>
<tr>
<td>Interprovincial Red Seal Exam</td>
<td>Minimum 70%</td>
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Supporting Documents

**Rig Technician** Occupational Standard (2012) – Prepared by industry experts, under the guidance of the federal government, for Red Seal trades to define the national standard of competence for the trade. Available on the Red Seal [website](#).

Contacts

The **Industry Training Authority** (ITA) manages BC’s industry training and apprenticeship programs. Contact ITA Customer service if you have any questions regarding registration, examinations or certification for this program.

- **Telephone:** 778-328-8700
- **Fax:** 778-328-8701
- **Toll Free (within BC):** 1-866-660-6011
- **Website:** [www.itabc.ca](http://www.itabc.ca)
- **Email:** customerservice@itabc.ca

Revision History

The standards for this program were reviewed and/or updated on the dates below.

- **Program Standards Approved:** July 2005
- **Updated:** January 2007
- **Updated:** September 2009
- **Updated:** February 2010
- **Updated:** December 2019

Program Profiles are updated regularly. Visit [www.itabc.ca](http://www.itabc.ca) for the most current version.