

RIG TECHNICIAN

Credentials Issued:

ITA Certificate of Qualification (Rig Technician)

Inter-Provincial Red Seal Endorsement (Rig Technician)

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

Occupational 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 fuels, oil filters, 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
- mix 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 works 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-out)

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 approved by ITA and will generally take 1 year to complete. The program includes:

- In-school technical training: 12 weeks (360 hours) (Approximately 4 weeks per level)*
- Work-based: 4,500 hours (covering all seasons)

*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 4,500 workplace hours:

- Sponsor attestation

Completion of technical training: (Requirement can be met through challenging a level exam where available.)

- Level 1 - in-school assessment and ITA standardized examination
- Level 2 - in-school assessment and ITA standardized examination
- Level 3 - in-school assessment and ITA standardized examination

Inter-Provincial Red Seal Examination

Program Challenge Requirements:

- 6,750 documented hours of directly related work experience, with a minimum of 1000 hours performing Rig Technician Level 3 work / tasks to challenge the Inter-Provincial Red Seal examination.

Program Pre-requisites:

- No educational prerequisites are required

Assessment Methods:

- In-school assessments (practical and written exams)
- Work-based assessments (practical)
- ITA Standardized Level Examinations
- Final Assessment (Inter-Provincial Red Seal written examination)
- Log Book

Program Standards Documentation:

- National Occupational Analysis (NOA) 2008
- Program Outline

Industry Program Standards Mechanism:

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

Program Provider:

Institution-based component of the program will be 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:

Level 1

Industry, Communication and Leadership
Rig Safety and Safety Supervision
Driving and Loader Safety
Tools, Equipment and Rigging
Power Systems

Level 2

Communications, Leadership and Supervision
Drilling Fluids
First Line Blow Out Protection
Derrick Operation

Level 3

Leadership and Communication
Rig Management and Safety
Rig Operations
Drilling Operations

IP Exam Competencies:

1. Occupational Skills 22%
2. Rig Moves 7%
3. Rig Up 10%
4. Rig Inspection and Maintenance 18%
5. Drilling Operations 32%
6. Rig Out 11%

APPROVED: July 2005

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