



Australian Government

RIIPGP203D Operate compressors

Release: 1

RIIPGP203D Operate compressors

Modification History

Not applicable.

Application

This unit describes a participant's skills and knowledge required to operate compressors in Metalliferous Mining.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for compressor operation 1.1	<p>1.1 Access, interpret and apply compressor operation documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Select and wear personal protective equipment appropriate for the activity</p> <p>1.4 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p> <p>1.5 Identify and address potential risks, hazards and environmental issues, and implement control measures</p>
2. Start-up compressor	<p>2.1 Perform pre-start-up checks</p> <p>2.2 Start-up individual items of equipment and the entire compressor system</p> <p>2.3 Start-up normally and after maintenance</p> <p>2.4 Build pressure steadily with no surging</p> <p>2.5 Stabilise compressor system to produce specified pressures and flows within minimum time</p>
3. Monitor and control the compressor	<p>3.1 Complete routine checks, logs and paper work</p> <p>3.2 Recognise the signs of potential and actual problems</p> <p>3.3 Monitor temperatures and lubrication oil and take action as required</p> <p>3.4 Trim plant to achieve required pressures and flows while maximising plant efficiency</p>
4. Change compressor output	<p>4.1 Predict the need to change compressor output to meet process requirements</p> <p>4.2 Change compressor output as required</p> <p>4.3 Manage changes smoothly and in a timely manner</p>
5. Maintain plant effectiveness	<p>5.1 Frequently and critically monitor all plant throughout shift</p> <p>5.2 Use measured/indicated data and smell, sight, sound and feel as appropriate to monitor plant</p> <p>5.3 Identify critical equipment/processes and tune their performance</p> <p>5.4 Identify issues likely to impact on plant performance and take appropriate action</p> <p>5.5 Predict impact of a change in one unit/area on other plant units/area and communicate this to relevant people</p>

	<ul style="list-style-type: none"> 5.6. Test trips and alarms 5.7. Prepare plant for maintenance/vessel entry 5.8. Complete minor maintenance 5.9. Receive plant back from maintenance 5.10. Prepare plant for the introduction of gas and operation
6. Shutdown compressor	<ul style="list-style-type: none"> 6.1. Determine type of shutdown required 6.2. Give advanced warning of shutdown 6.3. Changeover individual items of equipment 6.4. Shutdown individual items of equipment and the entire compressor system 6.5. Shutdown in an emergency 6.6. Reset trips and alarms after a shutdown 6.7. Leave plant in a condition ready to restart 6.8. Shut-down for maintenance
7. Conduct housekeeping activities	<ul style="list-style-type: none"> 7.1. Clear work area and dispose of or recycle materials 7.2. Clean and maintain condition of equipment, ensure suitability for use, and address/report issues 7.3. Manage and/or report hazards, and maintain a safe working environment 7.4. Process records

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIPGP203A Operate compressors

Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>