



Australian Government

RIINHB305D Conduct continuous flight auger drilling

Release: 2

RIINHB305D Conduct continuous flight auger drilling

Modification History

| Release | Comment |
|---------|---|
| 1 | This unit replaces RIINHB305A Conduct continuous flight auger drilling |
| 2 | Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm. |

Application

This unit describes a participant's skills and knowledge required to conduct continuous flight auger drilling in the Resources and Infrastructure Industry.

This unit is appropriate for those working in operational roles.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Elements and Performance Criteria

| | |
|---|--|
| <p>1. Plan and prepare for continuous flight auger drilling</p> | <p>1.1 Access, interpret and apply continuous flight auger drilling documentation, and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify and address potential risks, hazards and environmental issues and implement control measures</p> <p>1.4 Select and wear personal protective equipment appropriate for work activities</p> <p>1.5 Communicate and coordinate activities with others throughout the work activity</p> <p>1.6 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency</p> |
| <p>2. Operate continuous flight auger drill</p> | <p>2.1 Carry out pre-start and start up procedures</p> <p>2.2 Identify, select and apply rig operational controls</p> <p>2.3 Collar borehole, start hole, maintain hole alignment, take corrective action for deflections</p> <p>2.4 Make up appropriate drill string</p> <p>2.5 Handle additional augers, inserting them in the drill string</p> <p>2.6 Apply rotation, feed and holdback so that flights are substantially full for the soil being drilled at any given depth</p> <p>2.7 Interpret flow from the flights and other factors to determine conditions at the bit</p> <p>2.8 Describe and log, or record, description of the soils being excavated</p> <p>2.9 Make, break auger string and drive head connections</p> <p>2.10 Deploy and recover associated sampling equipment, obtain samples, bag, label and record samples</p> <p>2.11 Maintain a clear hole and a clear bottom and deploy tools for cleaning hole bottom at completed depth and/or prior to sampling tool deployment</p> |

| | |
|--|---|
| | <p>2.12 Interpret and/or calculate actual depth at any point during drilling, interpret depth of strata changes and identify fill depth in any bore</p> <p>2.13 Select appropriate strategies for recovery of dropped augers</p> <p>2.14 Recover drill string using winch and/or head/kelly and disassemble drill string</p> <p>2.15 Select bits for formation being drilled</p> <p>2.16 Select appropriate augering method for situation</p> <p>2.17 Maintain spoil removal from hole collar</p> <p>2.18 Abandon, cover and/or secure bores</p> <p>2.19 Prepare and submit paperwork for daily activities including bore logs where appropriate</p> <p>2.20 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment</p> |
| 3. Respond to problems | <p>3.1 Identify possible operational problems in equipment or process</p> <p>3.2 Identify symptoms of problems needing remedial action</p> <p>3.3 Determine possible fault causes</p> <p>3.4 Rectify problem using appropriate solution within area of responsibility</p> <p>3.5 Follow through items initiated until final resolution has occurred</p> <p>3.6 Report problems outside area of responsibility to designated person</p> |
| 4. Complete equipment maintenance and housekeeping | <p>4.1 Carry out shutdown and secure equipment</p> <p>4.2 Monitor external wear in drill string, rotate string elements to ensure even wear</p> <p>4.3 Interchange drill bits and/or drill bit elements to maintain free cutting ability</p> <p>4.4 Check all string and equipment elements for wear and proper function</p> <p>4.5 Replace worn elements in string, bits and equipment and recycle 'out of specification' equipment for repair or redundancy</p> <p>4.6 Apply lubrication as appropriate</p> <p>4.7 Ensure housekeeping activities are completed</p> <p>4.8 Process records</p> |

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

RIINHB305A Conduct continuous flight auger drilling

Links

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