



Extraction courses

Training for Quarry Professionals

9 hours - Online
Bite size learning
Flexible, self paced



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Extraction courses

Introduction

Simply said, quarrying is the process of removing natural resources from the soil. Construction aggregates like crushed rock, sand, or gravel are the materials that are most frequently extracted. Moreover, extraction from crushers, extraction from sorters, extraction of belt conveyor overflows, and extraction from filling nozzles are the primary dedusting techniques used in the quarry. This course will enable you to understand the methods of working in extractive sites, the load and haul and conveyors.



Target Audience

Operatives, Foremen, Technicians, Supervisors, and Managers.

Course Delivery

9 hours - Online on Moodle

Bite-sized learning chunks (videos and Interactive quizzes)

Self-paced /Self directed learning.

Certification

CPD accredited programmes.

Funding
Available

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Methods of Working Course | 5 hours

Course Overview

This course will help you understand underground minerals also known as 'mine' working methods of working employed in the excavation of minerals.

Course Content

1. Introduction
2. Selection Criteria For Method of Working
3. Open Pit (Including Rock Aggregate Operations)
4. Sand and Gravel and Unconsolidated Rock Quarries
5. The Extraction of Sand and Gravel Underwater
6. Placer Deposits
7. Opencast Coal Mining

Learning Outcomes

Learners will have a better understanding of the aspects of quarry design and operation and a better insight into types, methods, open pits, unconsolidated rock quarries & opencast mining.



Conveyors Course | 4 hours

Course Overview

This course will help you understand the types of equipment used for an effective way of continuously transporting bulk materials and other purposes in the mineral extraction industry.

Course Content

1. Belts
2. Conveyor Belt Joints
3. Pulleys and Drives
4. Mechanical Drives
5. Tensioning Equipment
6. Changing Conveyor Belts
7. Drive Equipment
8. Anti Runback Devices
9. Belt Cleaning Equipment
10. Additional Systems to Aid Spillage & Reduce Cleaning
11. Tube Conveyors
12. Loading of Belt Conveyors
13. Feeders
14. Trippers
15. Factors Influencing Conveyor
16. Design
17. Power Requirements
18. Safety Check
19. Environmental Check
20. Maintenance and Fault-Finding



Learning Outcomes

Learners will have a better understanding of systems and types of equipment used in the mineral extraction industry.

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 **FUTURECAST**

IQ
The Institute
of Quarrying