



SPECIALISED RESOURCE TRAINING

Training for the Future

COURSE OUTLINE – RC HAMMER TRAINING

Prerequisites: candidates to have a basic working knowledge of drill rigs and hammers.

Purpose: The main Purpose of this course is for candidates to acquire the skills to assemble and disassemble a RC hammer and learn the fundamentals on RC hammer design, use, care and assembly.

Scope: Candidates will learn the correct procedure for using, rebuilding, and diagnosing failures in RC hammers and hammer components, and how to correct these to get the most out of these critical drill consumables.

INTRODUCTION

- How and why RC Hammers work.
- Hammer dynamics, e.g., Piston weight and frequency and inertia.
- Airflow

ITEM DESCRIPTION

- Care and safety
- Basic Metallurgy
- Item description for each part of the hammer and what they do.
- Make up measurements
- Critical tolerance
- Striking faces and different materials.
- Hammer designs and their benefits.
- Shank design

CARE AND MAINTENANCE

- Lubrication
- Corrosion
- Storage and Handling

DRILLING DO AND DON'TS

This part of the course we delve into drilling practices and how they affect hammer life, by looking at the principles behind the different practices and the effect on the metallurgy and wear on components. This is based on evidence collected from the drill consumables and not by BRAND or colour preference.

- Measuring performance
- Breakages and fault diagnosis
- Drilling to suit the limitations of the drill string components and the geology.
- The effects poor drilling practices have on the rest of the rig.