

# sts3D simulated training solutions Survey Note – Advance the Blast

## 1. Purpose

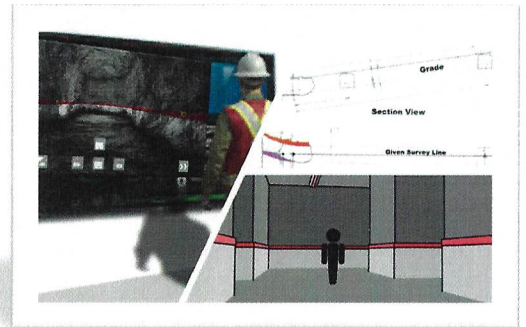
The purpose with the Survey Note programme is to simulate cause-and-effect scenarios regarding the foundation to advance the blast: how to accurately read and interpret the survey note, taking line and grade, checking drill direction and determine emulsion densities correctly to avoid over-blasting.

## 2. Programme outline

### ▪ *Read the survey note*

In **Phase 1** learners are shown how to read and understand survey notes and how to decide on direction and grade lines to figure out in which direction the blast will advance.

This is done on PC or the touch screen.



### ▪ *Take line and grade and drill direction*

In **Phase 2**, we use the VR HMD to immerse the learner in a 3D stope or a development end. The learners are faced with a condition for which they must determine the centre and grade line to mark off painting lines based on the survey note.

The purpose is to teach the learner

- how to mark hanging- and sidewalls correctly by using pegs lines
- to determine the centre line to paint the critical and perimeter lines
- how to determine drill hole lengths and drill direction
- how to check whether the drill direction is correct
- the impact of incorrect drill lengths and direction
  - showing the consequences of bad blasts.

### ▪ *Determine emulsion densities*

In **Phase 3** the learner is instructed on PC or touch screen on how to determine emulsion densities for each hole to avoid over-blasting.

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