



OBSERVATION REQUIREMENTS FOR HOISTING ENGINEER CERTIFICATION

Company Name:

Mine Name and No:

Date:

Mine Index No:

Applicant's Name:

Applicant's Address:

Applicant's Date of Birth:

Name and certification number of active certified hoisting engineer present at observation site:

1. Type and capacity of hoist used:

2. Are persons transported into or out of the mine by means of hoist: Regularly , Occasionally : or In An Emergency

3. Did applicant provide a general description of the hoist? Yes No

**4. Did applicant respond correctly to oral questions (see reverse) asked by the observer? Yes No
(If no please explain)**

Explanation:

5. Did applicant demonstrate and sound signaling devices? Yes No

6. Did applicant lower a loaded trip into the shaft or slope? Yes No

7. Did applicant inspect cable fastenings, safety chains, breaks, etc., prior to dropping the loaded trip in the mine? Yes No

8. Did applicant bring the loaded trip to a premature stop at some point along the shaft or slope to demonstrate ability to control the trip? Yes No

Comments:

APPLICANT'S SIGNATURE: _____

HOISTING ENGINEER'S SIGNATURE: _____

OBSERVER'S SIGNATURE: _____



HOISTING ENGINEER CERTIFICATION ORAL EXAMINATION QUESTIONS:

1. **WHEN SHALL A HOISTING ENGINEER BE ON DUTY OR AVAILABLE? (45.1-161.159)**
2. **WHAT SHALL THE HOISTING ENGINEER INSPECT AT THE BEGINNING OF EACH SHIFT? (45.1-161.158)**
3. **EXPLAIN THE TWO INDEPENDENT MEANS OF HOIST SIGNALS USED.**
4. **WHAT IS A HOIST REQUIRED TO BE EQUIPPED WITH BEFORE MEN CAN BE TRANSPORTED? (OVERSPEED, OVERWIND AUTOMATIC STOP CONTROLS - THE HOIST ENGINEER SHOULD BE ABLE TO POINT THESE DEVICES OUT).**
5. **WHAT IS THE MAXIMUM NUMBER OF MINERS THAT CAN RIDE THE HOIST AT ONE TIME? (MANUFACTURER SPECIFIED OR CHIEF CAN DETERMINE)**
6. **WHAT TYPE OF BACKUP (POWER SOURCE) IS AVAILABLE FOR USE IN CASE THE POWER CIRCUIT TO THE HOIST FAILS? (LOCATE AND DEMONSTRATE VERBALLY)**
7. **WHAT SPEED CAN THE HOIST BE OPERATED WHEN MINERS ARE BEING HOISTED OR LOWERED? (MAX. 1000 FT. PER MIN. 45.1-161.160)**
8. **HOW OFTEN SHALL TESTING OF SAFETY CATCHES ON CAGES BE MADE? (ONCE PER MONTH - 45.1-161.158.e)**
9. **WHAT SAFETY FACTOR MUST HOISTING ROPES HAVE TO HOIST OR LOWER MINERS? (AT LEAST 10:1 RATIO)**
10. **WHAT TYPE TESTING AND CHANGE OUT PROGRAM DO YOU HAVE FOR HOISTING ROPES?**