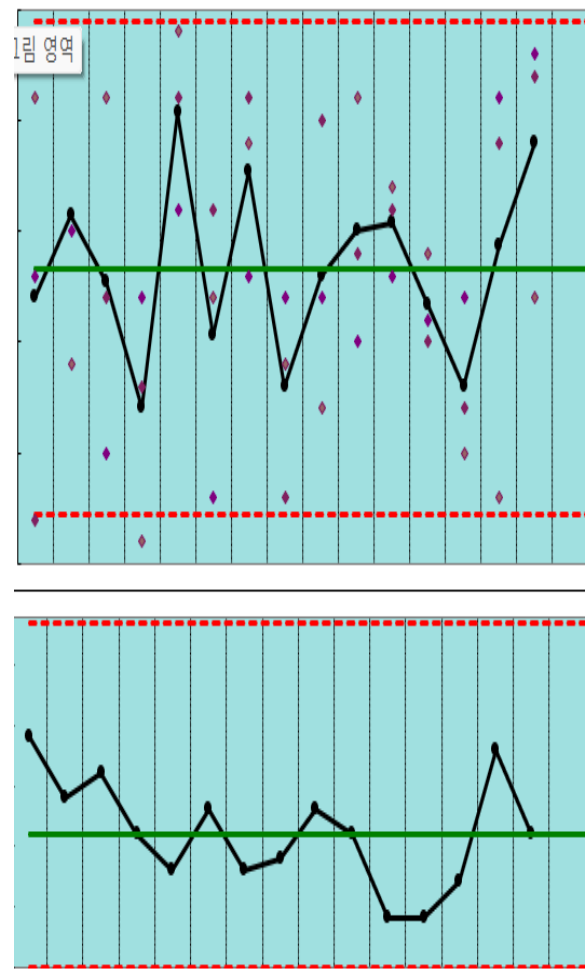
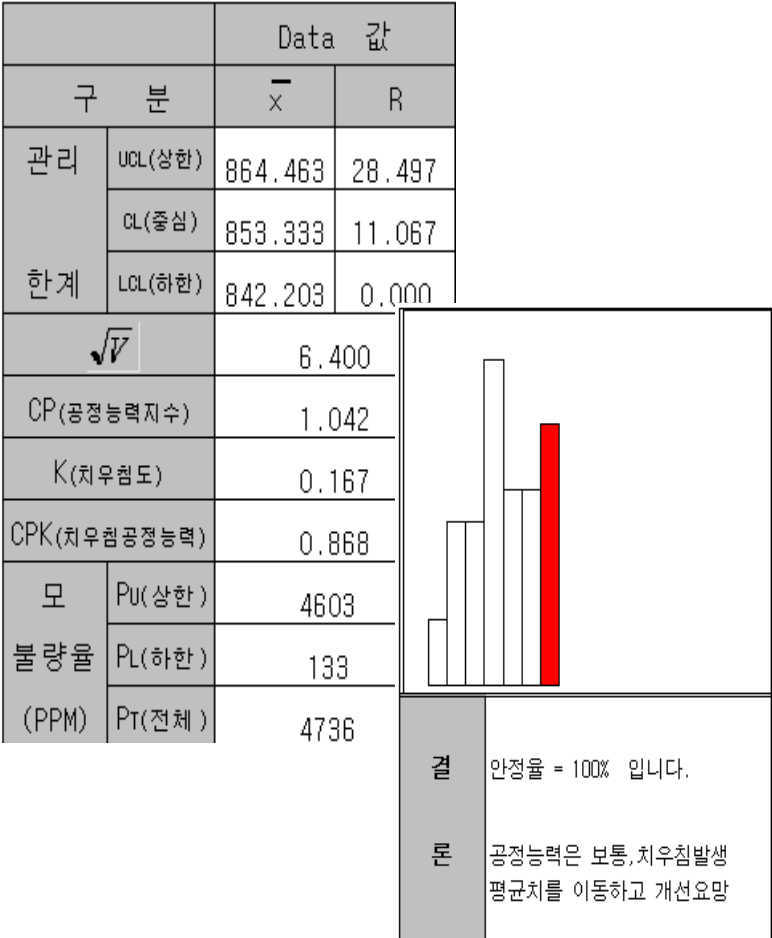


품질관리를 위한 역량

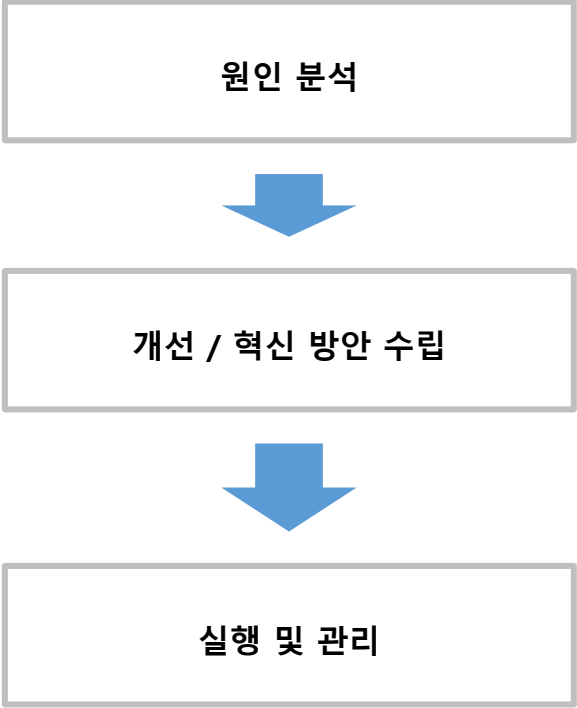
1. 적절한 항목으로 측정/검사



2. 적절한 분석



3. 개선 조치

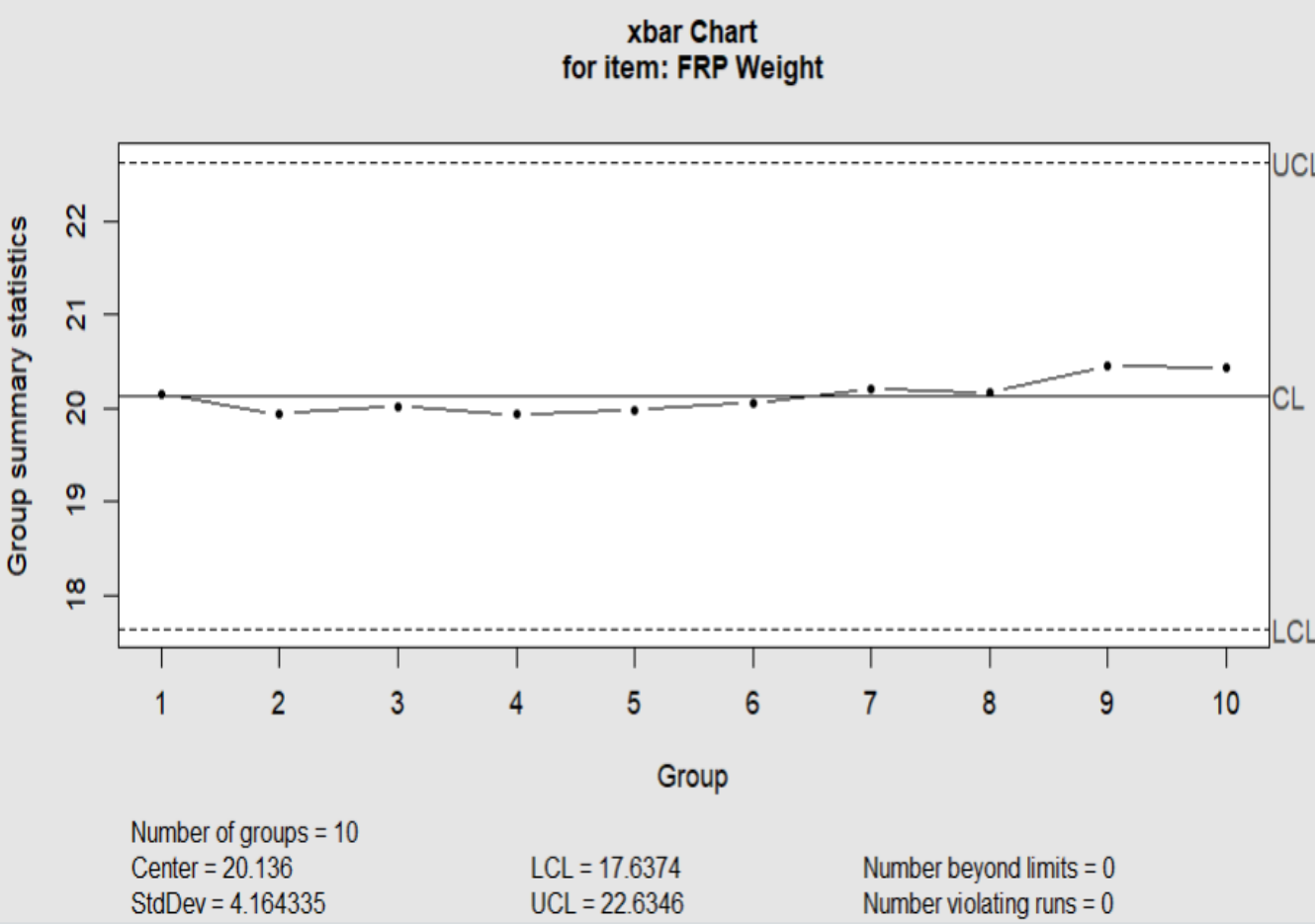


예시) FRP 중량

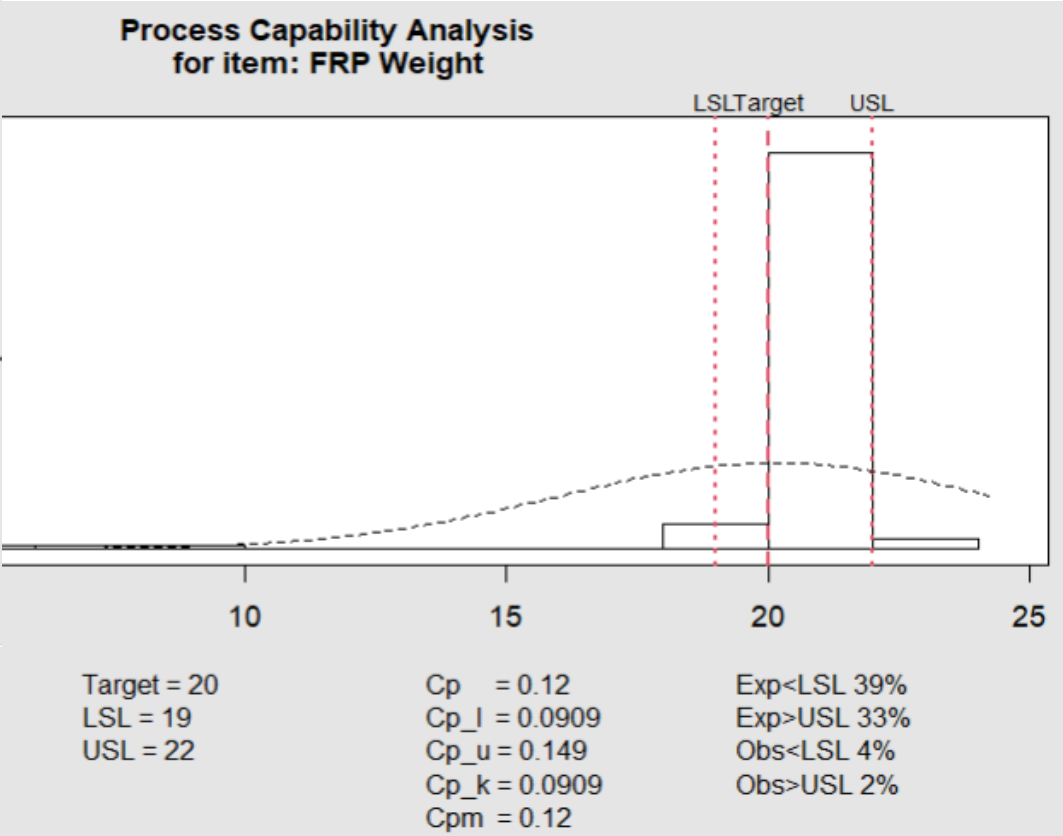
중량을 측정하지만 그 의미를 파악하지 않고 있음 : Rocky black 임에도 20kg 미만도 있음 (3/18 사례)

| n | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|
| 1 | 21.4 | 21 | 21.1 | 22 | 20.1 | 20.4 | 20.6 | 21.1 | 20.6 | 20.2 | 21.4 | 20.8 | 20.4 | 22.2 | 21.9 | 20.5 |
| 2 | 20.6 | 21.3 | 20.3 | 20.1 | 20.4 | 20.1 | 21.3 | 20.9 | 20.9 | 20.6 | 21.2 | 20.6 | 21.4 | 21.5 | 21 | 20.2 |
| 3 | 20.2 | 21.1 | 22.2 | 21.7 | 20.6 | 20 | 20.8 | 20.4 | 21.1 | 20.5 | 20.8 | 19.9 | 20.6 | 21.1 | 19.8 | 20.4 |
| 4 | 21.1 | 20.6 | 20.1 | 20.5 | 20 | 20.6 | 20.1 | 20.1 | 20.2 | 21.5 | 20.1 | 20.1 | 20.5 | 20.6 | 19.9 | 20.9 |
| 5 | 20.8 | 20.4 | 20.9 | 20.9 | 19.9 | 20.2 | 20.5 | 20.5 | 20.7 | 21.1 | 20.3 | 20.3 | 19.9 | 20.8 | 20 | 20.1 |
| 6 | 20.9 | 20.6 | 21.6 | 21.1 | 20.3 | 20.7 | 20 | 20.8 | 20.1 | 21.6 | 20.5 | 20.2 | 20.7 | 21 | 20.6 | 20.5 |
| 7 | 22 | 21.5 | 20.3 | 20.4 | 20.1 | 21.6 | 19.8 | 20.2 | 20.4 | 21.1 | 20.6 | 20.1 | 21.1 | 20.4 | 21.1 | 20.8 |
| 8 | 20.1 | 22.2 | 21.1 | 20.9 | 20.8 | 20.5 | 19.9 | 19.7 | 20.8 | 20.8 | 21.5 | 20.5 | 20.1 | 20.6 | 20.5 | 20 |
| 9 | 20.5 | 20.2 | 20.7 | 21.6 | 21.1 | 21.1 | 20.2 | 21.4 | 21.4 | 21.1 | 21.1 | 20.9 | 20.2 | 20.8 | 21.4 | 20.6 |
| 10 | 20.3 | 20.5 | 21.3 | 21 | 20.5 | 20.4 | 22.1 | 21.2 | 22 | 20.5 | 20.4 | 20.3 | 21.6 | 20.1 | 21.8 | 20.5 |
| 평균 | 20.79 | 20.94 | 20.96 | 21.02 | 20.38 | 20.56 | 20.53 | 20.63 | 20.82 | 20.9 | 20.79 | 20.37 | 20.65 | 20.91 | 20.8 | 20.45 |
| Max | 22 | 22.2 | 22.2 | 22 | 21.1 | 21.6 | 22.1 | 21.4 | 22 | 21.6 | 21.5 | 20.9 | 21.6 | 22.2 | 21.9 | 20.9 |
| Min | 20.1 | 20.2 | 20.1 | 20.1 | 19.9 | 20 | 19.8 | 19.7 | 20.1 | 20.2 | 20.1 | 19.9 | 19.9 | 20.1 | 19.8 | 20 |
| R bar | 1.9 | 2 | 2.1 | 1.9 | 1.2 | 1.6 | 2.3 | 1.7 | 1.9 | 1.4 | 1.4 | 1 | 1.7 | 2.1 | 2.1 | 0.9 |

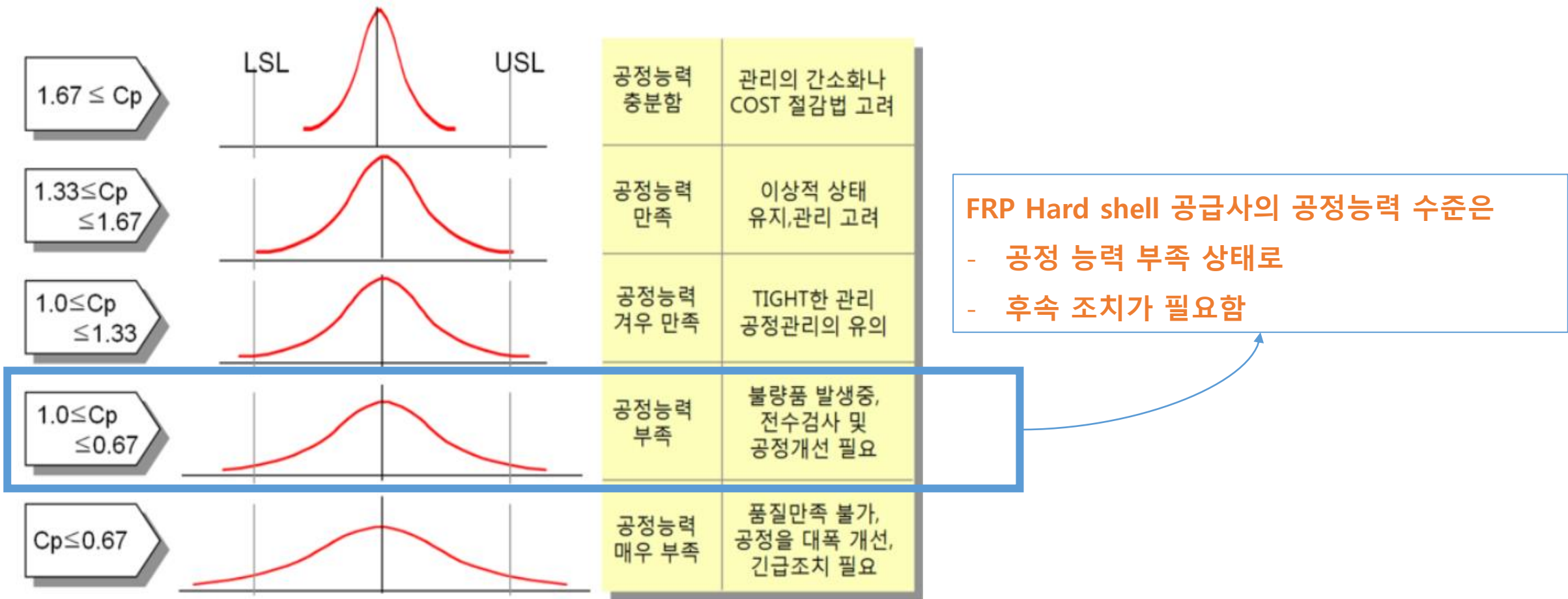
예시) FRP 중량 분석



Cp_k = 0.0909



예시) FRP 중량 분석



공정능력지수평가 (출처 : 한국자격기술인증원 블로그)