

## Exam Name - Master Black Belt in Lean Six Sigma (MBLSS)

### Sample Exam

1. For a global rollout of a newly standardized process, MBB should first:

- A. Send the Control Plan to all sites
- B. Conduct a pilot in a representative site to adapt to local context
- C. Train all belts immediately
- D. Establish capability index targets

Answer **B**

2. You've run a fractional factorial DOE of 5 factors at 2 levels ( $2^{(5-1)}$  design). Which is true?

- A. Main effects are fully separable from all interactions
- B. Some two-factor interactions are aliased with other two-factor interactions
- C. It's a full factorial design
- D. No aliasing is present

Answer **B**

3. Which leadership technique helps maintain improvements long-term?

- A. Only classroom training
- B. Annual audits
- C. Deploying Control Plan + organizational root-cause reviews + audit schedules
- D. Using X-bar charts sporadically

Answer **C**

4. In a  $2^{(5-1)}$  fractional factorial design at 2 levels, which is true?

- A. No aliasing among effects
- B. It's a full factorial
- C. Some two-factor interactions are aliased with others
- D. Main effects are unaffected by aliasing

Answer **C**

5. A Master Black Belt tasked with sustaining gains should initially:

- A. Deploy control plans organization-wide
- B. Conduct root-cause reviews and schedule audits alongside control charts
- C. Rely on sporadic use of X-bar charts
- D. Conduct only classroom training

Answer **B**

6. Your global improvement shows high overall Cpk, but one site lags behind. You should:

- A. Declare success—overall Cpk is adequate
- B. Launch Gage R&R and site-level SPC to isolate and fix site issues
- C. Just increase sampling frequency
- D. Halt all Lean Six Sigma efforts

Answer **B**