

Mock Test

Conventional Surface Grinding Operator

Version- 4.0

Level- 3

CSC/N0109. Carry Out Grinding Operations Using Conventional Grinding Machines

Q1. What is the primary purpose of dressing a grinding wheel before starting surface grinding? (3 Marks)

- A. Increase feed rate
- B. Improve wheel cutting efficiency
- C. Reduce machine vibrations
- D. Cool down the workpiece

Q2. Which factor most influences surface finish quality during conventional surface grinding? (3 Marks)

- A. Table feed direction
- B. Coolant flow rate
- C. Wheel speed
- D. Workpiece material hardness

Q3. Why must the grinding wheel be properly balanced before high-speed grinding operations? (3 Marks)

- A. Avoid coolant evaporation
- B. Increase cutting depth
- C. Prevent wheel vibration
- D. Reduce grinding noise

Q4. How should the workpiece be secured before performing surface grinding operations? (3 Marks)

- A. Placing loosely on magnetic table
- B. Using proper clamps or fixtures
- C. Using tape to stick
- D. Holding by hand

Q5. What is the effect of excessive feed rate on grinding operation and workpiece surface? (5.5 Marks)

- A. Reduces tool wear
- B. Faster material removal

- C. Overheating and surface burns
- D. Better surface finish

Q6. Why is coolant important during conventional surface grinding operations? (5.5 Marks)

- A. Speeds up grinding
- B. Reduces heat and prevents damage
- C. Improves table stability
- D. Improves workpiece hardness

Q7. What should an operator do if abnormal vibrations occur during grinding operation? (7 Marks)

- A. Apply more coolant
- B. Increase feed rate
- C. Stop machine and inspect wheel
- D. Ignore and continue

CSC/N1335. Follow the Health and Safety Practices at the Work

Q8. Why is it essential to wear personal protective equipment during surface grinding work? (3 Marks)

- A. Reduce machine vibration
- B. Prevent injuries fast
- C. Improve surface finish
- D. Increase grinding speed

Q9. What is the correct procedure before starting a grinding machine to ensure safety? (3 Marks)

- A. Adjust workpiece hand
- B. Increase feed rate
- C. Start immediately
- D. Inspect wheel properly

Q10. How should operators handle a broken or damaged grinding wheel safely? (3 Marks)

- A. Use cautiously
- B. Remove partially
- C. Stop machine replace
- D. Grind lower speed

Q11. Why should the work area be kept clean and free from obstructions during grinding? (3 Marks)

- A. Reduce coolant use
- B. Prevent slips accidents
- C. Increase feed speed
- D. Improve wheel efficiency

Q12. What is the safest way to remove swarf or chips after grinding operation? (5.5 Marks)

- A. Pick up hand
- B. Sweep with hands
- C. Use brush vacuum
- D. Blow with air

Q13. Why must emergency stop switches be easily accessible near the grinding machine? (5.5 Marks)

- A. Reduce grinding noise
- B. Increase surface finish
- C. Improve wheel balance
- D. Stop machine fast

Q14. Why is proper ventilation necessary in a grinding workshop environment? (7 Marks)

- A. Remove dust fumes
- B. Increase hardness
- C. Cool grinding wheel
- D. Reduce table vibration

CSC/N1336. Coordinate with Coworkers to Achieve Work Efficiency

Q15. Why is effective communication with coworkers important during grinding operations? (3 Marks)

- A. Reduce coolant usage
- B. Prevent errors and improve workflow
- C. Increase wheel speed
- D. Minimize workpiece hardness

Q16. How can sharing work schedules with coworkers improve surface grinding efficiency? (3 Marks)

- A. Improve wheel dressing
- B. Increase grinding noise
- C. Avoid conflicts and idle time
- D. Reduce table feed

Q17. What is the benefit of coordinating machine maintenance tasks with coworkers? (3 Marks)

- A. Minimize downtime
- B. Reduce coolant flow
- C. Increase wheel wear
- D. Improve surface roughness

Q18. How does collaborating on material handling enhance efficiency in a grinding workshop? (3 Marks)

- A. Increase table vibration
- B. Reduce coolant evaporation
- C. Improve wheel dressing
- D. Faster workflow

Q19. Why should operators report potential hazards to coworkers before starting grinding work? (3 Marks)

- A. Improve surface finish
- B. Ensure everyone's safety
- C. Reduce feed rate
- D. Increase cutting depth

Q20. How can coordinating coolant application with coworkers improve grinding performance? (4 Marks)

- A. Speed up workpiece loading
- B. Reduce wheel dressing
- C. Increase table feed
- D. Maintain proper lubrication

Q21. What is the effect of dividing tasks efficiently among coworkers in a grinding team? (4 Marks)

- A. Reduce errors and save time
- B. Minimize coolant usage
- C. Increase machine vibrations
- D. Improve wheel hardness

Q22. How can teamwork improve quality control during conventional surface grinding operations? (7 Marks)

- A. Increase feed rate
- B. Detect defects quickly
- C. Reduce grinding noise
- D. Minimize wheel dressing

DGT/VSQ/N0101. Employability Skills (30 Hours)

Q23. Why is punctuality important for a grinding machine operator in a manufacturing workshop? (2 Marks)

- A. Increases coolant efficiency
- B. Reduces grinding wheel wear
- C. Improves surface finish
- D. Builds professional reputation

Q24. Which interpersonal skill helps operators coordinate effectively with inspectors and machine assistants? (2 Marks)

- A. Strong communication
- B. Limited interaction
- C. Frequent misunderstandings
- D. Poor listening habits

Q25. Why is willingness to learn new skills essential for conventional surface grinding operators? (2 Marks)

- A. Minimizes coolant evaporation
- B. Increases wheel diameter
- C. Reduces feed rate
- D. Adapts to modern machines

Q26. How can problem-solving skills benefit a grinding operator during machine malfunctions? (2 Marks)

- A. Quickly resolves issues
- B. Increases vibration control
- C. Improves surface roughness
- D. Reduces table feed

Q27. How can a surface grinding operator maintain professionalism when unexpected machine issues occur? (2.5 Marks)

- A. Avoid proper checks
- B. Panic without thinking
- C. Rush incorrect fixes
- D. Stay calm focused

Q28. How does maintaining a positive attitude impact work environment in a grinding workshop? (2.5 Marks)

- A. Motivates coworkers
- B. Speeds up wheel dressing
- C. Reduces coolant use
- D. Increases machine vibration

Q29. Why is time management crucial for completing grinding tasks efficiently? (2.5 Marks)

- A. Improves surface hardness
- B. Reduces coolant supply
- C. Ensures timely project completion
- D. Increases table vibration

Q30. How can self-discipline contribute to professional growth for a grinding machine operator? (5.5 Marks)

- A. Reduces coolant usage
- B. Minimizes workpiece hardness
- C. Improves wheel dressing
- D. Enhances reliability