Mock Test

Electro Discharge Machine (EDM) Operator

Version- 4.0

Level- 4

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

Q1. Why is wearing insulated gloves and safety goggles important while operating an EDM machine? (4 Marks)

A. Slow production process
B. Prevent electric shocks
C. Reduce machining speed
D. Increase tool wear

Q2. How does keeping the work area clean prevent hazards during EDM operations? (4 Marks)

A. Avoid slips and fire risk
B. Reduce spark generation
C. Slow machining accuracy
D. Increase material waste

Q3. Why should an EDM operator check all electrical connections before starting machine operations? (4 Marks)

A. Reduce metal erosion
B. Prevent accidental shocks
C. Increase electrode wear
D. Slow wire movement

Q4. How does proper ventilation reduce health risks when using EDM machines with dielectric fluids? (6 Marks)

A. Reduce machining speed
B. Slow power supply
C. Increase electrode corrosion
D. Avoid inhalation of fumes

Q5. Why is emergency stop verification essential before operating an EDM machine? (6 Marks)

A. Slow setup time
B. Ensure immediate shutdown
C. Reduce spark formation
D. Increase cutting speed

Q6. How does storing EDM tools and fluids safely prevent workplace accidents and contamination? (6 Marks)

A. Avoid fire and chemical hazards
B. Reduce electrode precision
C. Slow workflow
D. Increase programming errors

CSC/N1336. Coordinate with Coworkers to Achieve Work Efficiency

Q7. How does sharing real-time EDM machine status with coworkers improve team workflow and production efficiency? (4 Marks)

A. Reduce dielectric fluid life
B. Prevent delays and errors
C. Slow spark generation
D. Increase electrode wear

Q8. Why is discussing task allocation with team members important for EDM operations in a busy workshop? (4 Marks)

A. Slow setup time
B. Increase tool wastage
C. Reduce spark accuracy
D. Avoid overlapping work

Q9. How does collaborating on maintenance schedules enhance overall EDM machine uptime and performance? (4 Marks)

A. Ensure consistent operation
B. Reduce machining precision
C. Increase error probability
D. Slow production

Q10. Why should EDM operators communicate electrode and dielectric issues promptly to teammates? (6 Marks)

A. Increase tool corrosion
B. Prevent production delays
C. Slow work progress
D. Reduce machining speed

Q11. How does coordinating electrode changes with coworkers improve efficiency in continuous EDM operations? (6 Marks)

A. Reduce fluid conductivity
B. Slow spark rate
C. Minimize idle machine time
D. Increase electrical load

Q12. Why is team discussion important when setting EDM machine parameters for complex machining tasks? (6 Marks)

A. Reduce operator skill
B. Ensure consistent results
C. Increase maintenance cost
D. Slow setup procedure

CSC/N0121. Set Up the CNC EDM for Machining Components

Q13. Why is verifying CNC EDM machine calibration essential before starting component machining operations? (4 Marks)

A. Slow electrode movement
B. Increase tool wear
C. Ensure dimensional accuracy
D. Reduce dielectric fluid life

Q14. How does selecting correct electrode type and size impact CNC EDM setup and machining performance? (4 Marks)

A. Achieve precise cuts
B. Slow power supply
C. Reduce spark efficiency
D. Increase setup time

Q15. Why should CNC EDM operators check dielectric fluid level and quality before machining components? (4 Marks)

A. Reduce machining accuracy
B. Slow component removal
C. Prevent electrical arcing
D. Increase tool vibration

Q16. How does programming proper machining parameters ensure safe and efficient CNC EDM operations? (6 Marks)

A. Reduce electrode life
B. Avoid tool breakage
C. Slow production cycle
D. Increase energy consumption

Q17. Why is securing the workpiece firmly essential when setting up the CNC EDM for machining operations? (6 Marks)

A. Reduce dielectric efficiency
B. Increase electrode wear
C. Slow setup process
D. Prevent movement and errors

Q18. How does checking machine safety interlocks before starting the CNC EDM prevent workplace accidents? (6 Marks)

A. Increase programming speed
B. Ensure operator safety
C. Slow machining process
D. Reduce spark generation

CSC/N0118. Operate the Digitally Enhanced CNC EDM to Machine

Q19. How does analyzing real-time machine data help EDM operators prevent errors during digitally enhanced operations? (4 Marks)

A. Increase tool wear
B. Slow electrode replacement
C. Identify anomalies early
D. Reduce dielectric flow

Q20. Why is ensuring proper electrode clearance critical for stable spark generation in CNC EDM machining? (4 Marks)

A. Maintain consistent cutting
B. Reduce operator alertness
C. Slow setup adjustments
D. Increase machining time

Q21. How does adjusting pulse duration and intensity affect surface finish quality on CNC EDM machined components? (4 Marks)

A. Increase power consumption
B. Achieve smoother surfaces
C. Slow cycle completion
D. Reduce fluid effectiveness

Q22. Why should EDM operators monitor machine temperature during digitally enhanced operations? (6 Marks)

A. Increase electrode wear
B. Slow spark generation
C. Reduce dielectric viscosity
D. Prevent thermal distortion

Q23. How does automated error reporting in digitally enhanced CNC EDM improve workflow efficiency? (6 Marks)

A. Increase setup complexity
B. Slow tool replacement
C. Speed up troubleshooting
D. Reduce cutting accuracy

Q24. Why is regularly verifying backup data and CNC parameters important during EDM operations? (6 Marks)

A. Reduce spark precision
B. Ensure recovery after failure
C. Slow component handling
D. Increase machine vibrations

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

Q25. How does effective communication help EDM operators coordinate tasks and prevent machining errors efficiently? (2 Marks)

A. Increase spark gaps
B. Slow tool replacement
C. Reduce electrode quality
D. Share important updates

Q26. Why is time management important for EDM operators in completing machining operations accurately and timely? (2 Marks)

A. Reduce dielectric effectiveness
B. Meet production deadlines
C. Increase tool corrosion
D. Slow CNC setup

Q27. How does teamwork contribute to achieving higher productivity in a busy EDM workshop environment? (2 Marks)

A. Share workload effectively
B. Slow machining cycle
C. Reduce safety compliance
D. Increase electrode wear

Q28. Why is adaptability important for EDM operators working with different machines and machining programs? (4 Marks)

A. Reduce machining quality
B. Adjust quickly to changes
C. Increase setup errors
D. Slow workflow

Q29. How does continuous learning help EDM operators stay updated with new technologies and machining techniques? (5 Marks)

A. Increase energy consumption
B. Slow production efficiency
C. Improve machining skills
D. Reduce safety standards

Q30. Why is professional behavior essential for EDM operators in maintaining a safe and efficient workplace? (5 Marks)

A. Build trust and reliability
B. Slow task completion
C. Increase programming errors
D. Reduce tool lifespan