**SELF-ASSESSMENT GUIDE**

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<tr>
<th>Qualification:</th>
<th>EDM-SINKING OPERATION NC II</th>
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<td>Units of Competency covered:</td>
<td>Set-up Electric Discharge Machine, electrode and work piece</td>
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<td>Perform Electric Discharge Machine-sinking operations</td>
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<td>Perform post Electric Discharge Machine-sinking operations</td>
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**Instruction:**
Read each question and check the appropriate column to indicate your answer.

<table>
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<tr>
<th>Can I?</th>
<th>YES</th>
<th>NO</th>
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**SET-UP EDM-SINKING, ELECTRODE AND WORKPIECE**

- Select EDM sinking type and capacity according to job requirement*
- Check oil, grease and dielectric fluid according to manufacturer’s specification*
- Set-up EDM parameters and electrical settings according to manufacturer’s specification*
- Select and mount work holding and clamping devices according to standard operating procedures*
- Check dielectric fluid pump and set working pressure according to manufacturer’s specification*
- Select electrode according to job requirement*
- Mount electrode on EDM platen and holder according to manufacturer’s specification*
- Align electrode perpendicular to table according to standard operating procedures*
- Select and mount clamping device based on workpiece shape*
- Mount work piece on clamping device according to standard industry procedures*
- Center work piece to required level of accuracy using tools and instruments in accordance with workplace procedures*
- Set zero reference points of X,Y,Z axes according to standard operating procedures*
- Enclose and seal front wall of working tank according to standard industry procedures*

**PERFORM EDM-SINKING OPERATIONS**

- Open pressure valve of nozzle for EDM flushing (dielectric fluid) according to standard industry procedures*
- Submerge work piece with dielectric fluid according to EDM operating manual*
- Conduct dry run and if required, adjust parameters, according to EDM operating manual*
- Operate EDM-sinking to meet dimensions, tolerances, limits, fits and surface texture according to job requirements*
### EDM Accessories
- Use EDM accessories according to job requirements
- Replace worn out electrode according to job requirements
- Monitor and adjust with the aid of power control unit the performance of machine and electrode based on the accepted industry standard
- Maintain dielectric fluid to required level according to machine operating manual
- Increase progressively the flushing pressure based on job requirements
- Maintain depth of cut thoroughly according to standard work procedures
- Empty dielectric fluid from working table according to operating manual
- Unclamp tank wall according to standard industry procedures
- Clean surface of work piece according to job requirements
- Inspect visually surface texture of work piece while on its holder according to job requirements
- Inspect electrode for wear according to job requirements

### Perform Post EDM-Sinking Operation
- Shut off EDM flushing (dielectric fluid) according to operating manual
- Remove work piece from clamping devices according to job requirements
- Clean and thoroughly dry work piece according to job requirements
- Check and measure work piece following standard operating procedures
- Apply anti-corrosion agents on work piece following standard operating procedures
- Fill up accomplishment report following workplace procedures
- Submit work piece and accomplishment report to immediate supervisor following workplace procedures
- Turn off electrical, pneumatic and hydraulic switches according to manufacturer’s operating manual
- Maintain and store tools based on established procedures
- Tag and report defective tools according to workplace procedures
- Practice 5S
- Dispose wastes accordingly
- Perform good housekeeping following 5S
- Dispose wastes according to waste management procedures and environmental regulations
- Practice OSHS

I agree to undertake assessment with the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.