

**Written Assessment Guide**  
**For**  
**“Dies & Mould**  
**Technology”**

**Level 4**  
**Perform (EDM) Wire Cut Operations**

*1<sup>st</sup> -5<sup>th</sup> March 2021*



**National Vocational & Technical**  
**Training Commission**

|                                                                                                                             |                                                                          |         |          |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------|----------|
| <b>Title of Qualification:</b><br>National Vocational Certificate Level 4, (Dies and Mould Technology) "CAD/CAM Supervisor" | CS Code:                                                                 | Level:4 | Version: |
| <b>Competency Standard Title:</b><br>Perform (EDM) Wire Cut Operations                                                      | <b>Assessment Date (DD/MM/YY):</b><br><br><b>Assessment Time:</b> 30 min |         |          |

|                        |                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Guidance for Candidate | <b>To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.</b> |
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**Assessors Guide** (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

|                            |                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Candidate Details          | Name: ..... Registration/Roll Number: .....<br>Candidate Signature:.....                                                                                               |
| Written Assessment Outcome | COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/><br>Name of the Assessor: ..... Assessor's code: .....<br>Signature of the Assessor:..... |

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#### WRITTEN ASSESSMENT

| Question                                    | Candidate's answer                                                                                                                                                                                                                     |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Explain the application of wire cut EDM? | A. Wire EDM is used in the manufacture of extrusion dies, blanking punches and tool fabrication.                                                                                                                                       |
| 2. What is an EDM machine?                  | A. A wire EDM machine is a type of CNC machine that can independently move four machines axes to generate taper cuts.                                                                                                                  |
| 3. What is EDM technology?                  | A. This gives the wire-cut EDM the ability to be programmed to cut very intricate and delicate shapes.                                                                                                                                 |
| 4. Which metal is not cut by wire EDM?      | A. Wire EDM works on parts resistant to conventional machining processes, but only if these parts are electrically conductive; usually, they are non-ferrous, and include steel, titanium, super alloys, brass, and many other metals. |
| 5. What is tool wear in EDM?                | A. Tool wear is an inevitable phenomenon that adversely affects the geometrical accuracy of machined features.                                                                                                                         |
| 6. How fast does wire EDM cut?              | A. Approximately eighteen to twenty inch                                                                                                                                                                                               |