

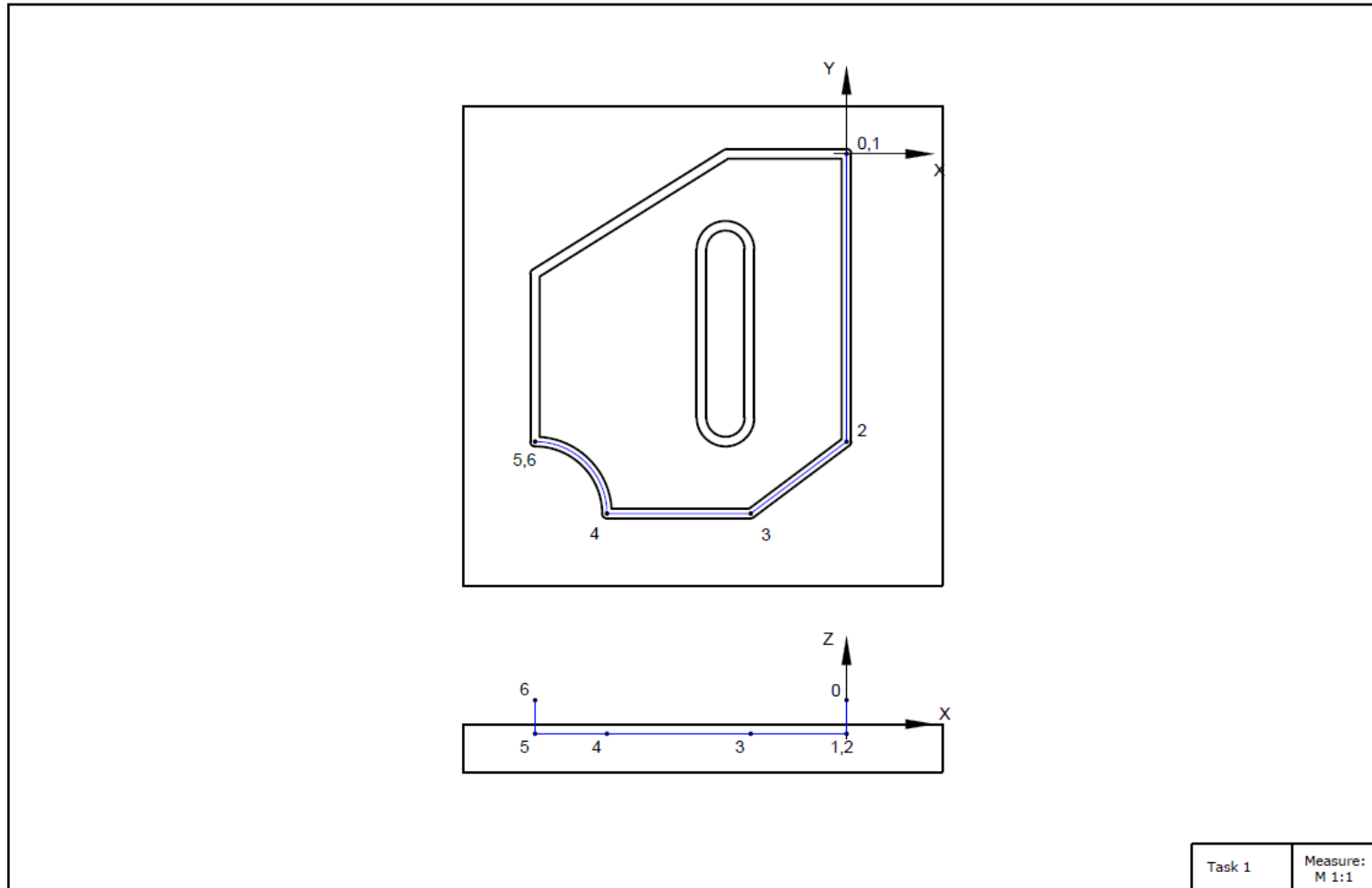
Field of education:  
**Mechanical engineering**

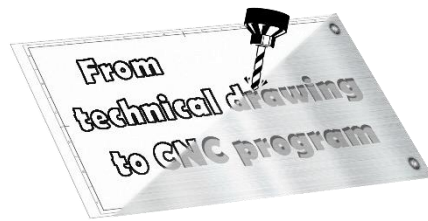
Professional qualification:  
**CNC operator**

Exercise:  
**Programming of CNC machine  
(solution)**

Variant:  
Task 22 – Support plate 2.2.

Solution:





**Required written code that should be inserted into the control unit:**

G1 Z-2

Y-60

X-20 Y-75

X-50

G2 X-65 Y-60 R15

G1 Z5

M30

**Explanation of the G-code:**

%Setting the coordinate system  $x=0$ ,  $y=0$ ,  $z=5$ ; point 0

G1 Z-2 %Tool entry into material; point 1

Y-60 %Straight milling; point 2

X-20 Y-75 %Straight milling; point 3

X-50 %Straight milling; point 4

G2 X-65 Y-60 R15 %Radial milling; point 5

G1 Z5 %Lifting of tool; point 6

M30 %End of program