



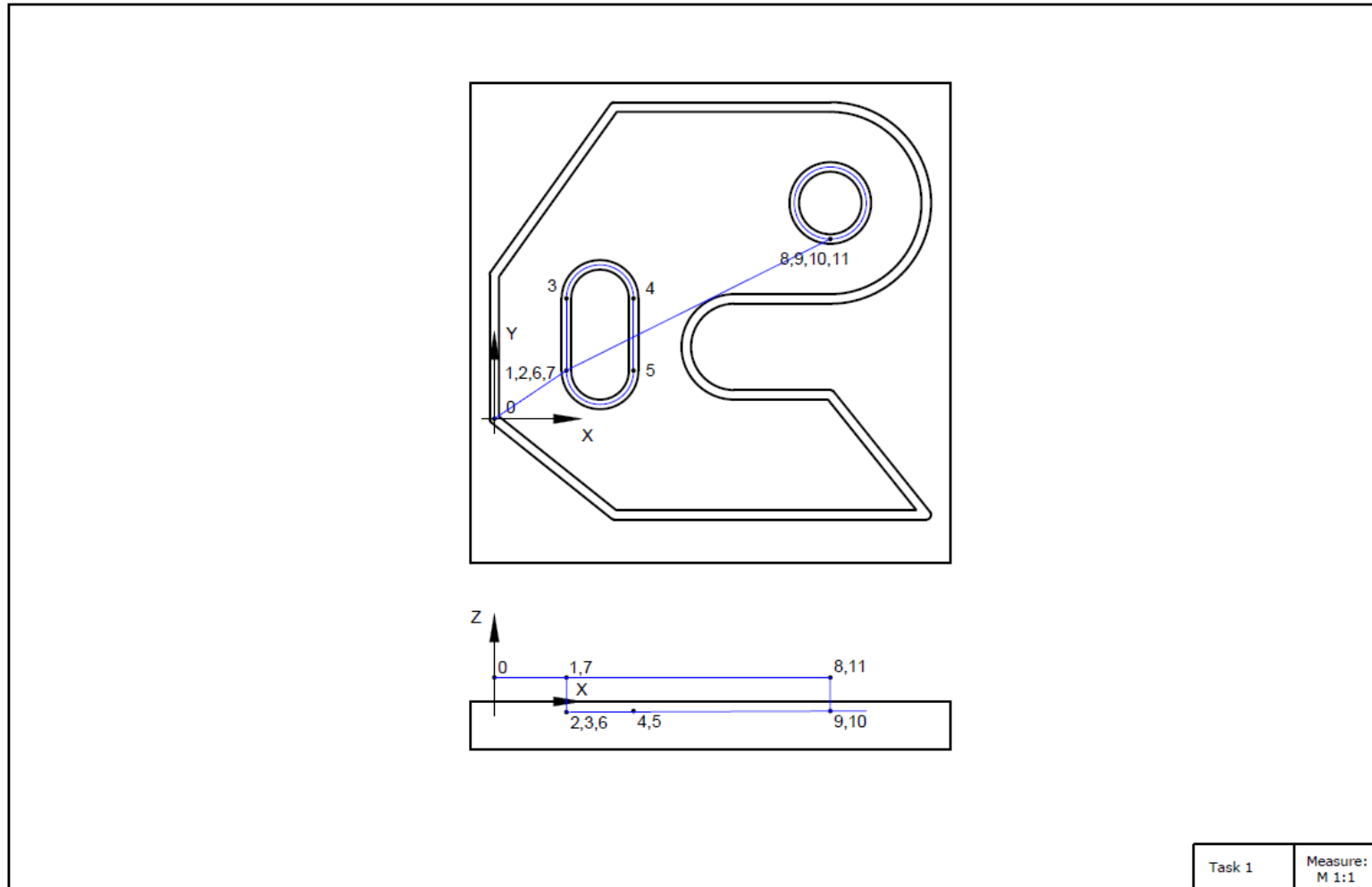
Field of education:
Mechanical engineering

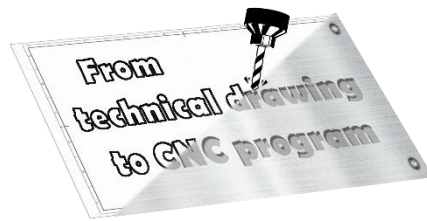
Professional qualification:
CNC operator

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

Variant:
Task 20 – Support plate 1.3.

Solution:





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

G0 X15 Y10,087

G1 Z-2

Y25,087

G2 X29 R7

G1 Y10,087

G2 X15 R7

G1 Z5

G0 X70 Y37,5

G1 Z-2

G3 X70 Y37,5 I0 J7.5

G1 Z5

M30

Explanation of the G-code:

G0 X15 Y10,087 %Positioning at the starting point; point 1

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

Y25,087 %Straight milling; point 3

G2 X29 R7 %Radial milling; point 4

G1 Y10,087 %Straight milling; point 5

G2 X15 R7 %Radial milling; point 6

G1 Z5 %Straight milling; point 7

G0 X70 Y37,5 %Positioning; point 8

G1 Z-2 %Tool entry into material; point 9

G3 X70 Y37,5 I0 J7.5 %Circle milling; point 10

G1 Z5 %Lifting of tool; point 11

M30 %End of program