

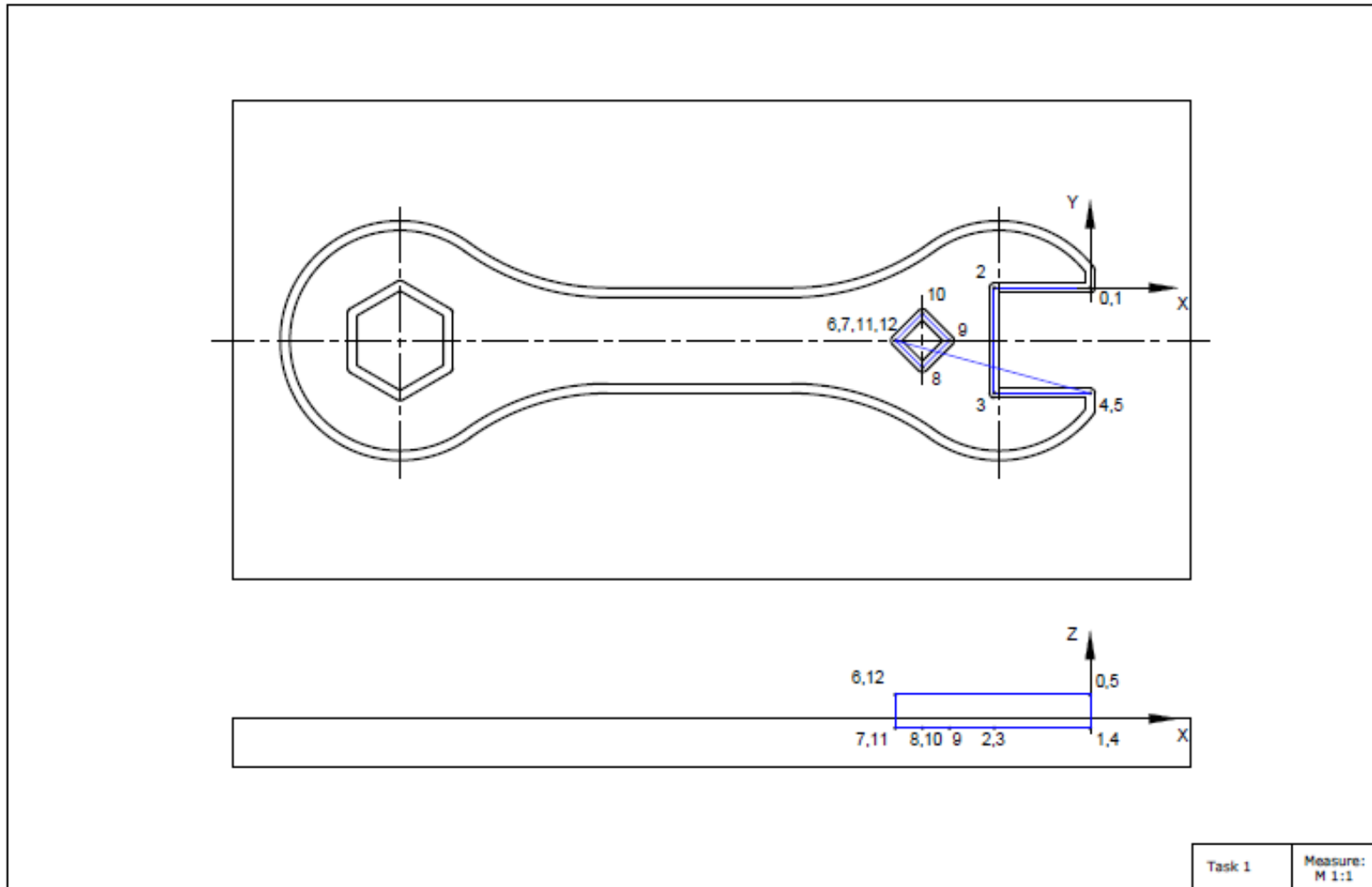
Field of education:
Mechanical engineering

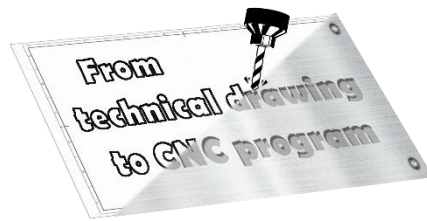
Professional qualification:
CNC operator

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

Variant:
Task 8 – Wrench 3.2.

Solution:





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

G1 Z-2

X-20

Y-22

X0

Z5

G0 X-40,657 Y-11

G1 Z-2

X-35 Y-16,657

X-29,343 Y-11

X-35 Y-5,343

X-40,657 Y-11

Z5

M30

Explanation of the G-code:

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

G1 Z-2 %Lifting of tool; point 1

X-20 %Straight milling; point 2

Y-22 %Straight milling; point 3

X0 %Straight milling; point 4

Z5 %Lifting of tool; point 5

G0 X-40,657 Y-11 %Tool positioning; point 6

G1 Z-2 %Tool entry into material; point 7

X-35 Y-16,657 %Straight milling; point 8

X-29,343 Y-11 %Straight milling; point 9

X-35 Y-5,343 %Straight milling; point 10

X-40,657 Y-11 %Straight milling; point 11

Z5 %Lifting of tool; point 12

M30 %End of program