

## ECCC SYLLABUS

MODULE: **AI M2 SPATIAL DESIGN CAD 3D**

LEVEL: **ADVANCED (C)**

The examination of this module includes all aspects of the intermediate (B) extended the competencies listed below.

COMPETENCE GROUP	COMPETENCE WITHIN ECCC STANDARDS
1. <b>Modification of 3D objects</b>	1.1. Changing the position of objects in space: copy and move, scale buildings, pan and rotate. 1.2. Matching items: shift and rotation. 1.3. 3D Mirror Effect 1.4. 3D Chic: polar and rectangular. Defining the rows and columns in space. 1.5. : 3D polylines, surfaces and vertices of the surface. Holders of three-dimensional objects. 1.6. Flatten command as a tool for Express Tools to flatten 3D objects known. Creating two-dimensional representation of the objects indicated. 1.7. Breaking into sections of 3D objects, grids, wall 3D regions.
2. <b>Projections and profiles of solids</b>	2.1 Advanced features to create projections and flat sections. Sections simple and broken. 2.2 Cutting Plane: a flat section, section 3D. Intersection envelope settings, fill the intersection, lines backgrounds, geometric cut-off lines of tangency of curves. 2.3 Creating a viewport in paper space. Projections and sections in viewports created. 2.4 Cross section of a solid using the SECTION command is created as a region.
3. <b>Modification of solids</b>	3.1. Tools to modify solids: cutting edge (chamfer), rounding the edges, cut blocks (lobe), creating and deleting fingerprints, stroke (shell). 3.2. Modification of the wall: thickening walls, moving and taking, postponing and shearing walls. Copy and color of walls. 3.3. Modifying the edge: copy and color edges.
4. <b>Cooperation with external objects</b>	4.1. OLE technologies: Embedding / linking a file and view it as a 3D object 4.2. Hyperlinks: inserting, editing, opening and deleting hyperlinks in absolute and relative spatial objects. 4.3. Export and import ACIS format. Reading and writing in the ACIS format.

Preferred development environments for advanced-level tasks:

- Autodesk AutoCAD, AutoCAD LT
- AutoCAD Architecture, AutoCAD Mechanical