

**KAYSERİ UNIVERSITY TOMARZA MUSTAFA AKINCIOĞLU VOCATIONAL SCHOOL**  
**MAPPING AND CADASTRE PROGRAM**

Basic Field Competencies (Architecture and Construction, Academic Focus)		1	2	3	4	5	6	7	8	9	10	11	12	Turkish Higher Education Qualifications Framework TYYÇ, Level 5 (Associate Degree Education)				
Knowledge	Theoretical -Conceptual	1- Possesses comprehensive, specialized, factual and conceptual knowledge in relevant fields based on the competencies gained in secondary education and defines the boundaries of this knowledge.	A	T							A	A	A	A	1- Possess theoretical and practical knowledge supported by textbooks with updated information, practice equipments and other resource on basic level based on qualifications gained at secondary education level.	Theoretical -Conceptual	Knowledge	
		2- Possesses the logical, intuitive, creative and critical thinking skills and practical skills necessary to develop creative solutions to concrete and abstract problems.	A	T	A	A	A	T	A	A	A	A	A					1- Gain the skills to use basic level theoretical and practical knowledge acquired within the field in the same field of a higher education level or in a field of same level.
Skills	-Cognitive -Practical	3- Has oral and written expression skills, visual/graphic expression and modeling skills in conventional and digital environments.	A	T			A	T		A	T				2- Interpret and evaluate data, define problems, do analysis, produce solutions based on proof with using basic level knowledge and practices gained within the field.	-Cognitive -Practical	Skills	
		1- Acts independently and takes responsibility in working and learning environments, prepares and executes a project.		A	A	T				T	A	T						1- Conduct studies at basic level within the field independently.
Competences	Ability to Work Independently and Take Responsibility	2- Demonstrates creativity while developing projects.	A	T	A		A		A	A	T				2- Take responsibility as a team member in order to solve unexpected complex problems faced in the implementations within the field.	Competence to Work Independently and Take Responsibility	Competences	
		3- Takes responsibility as a team member to solve complex problems in learning environments.		A	A			A			A	T			3- Conduct activities towards the development of subordinates within a project.			
		4- Evaluates and improves his own success and that of others.	A		A							A						
		1- Determines the learning needs necessary for further learning.	A	T			T			T	T		A	A	A			1- Evaluate the acquired knowledge and skills at basic level within the field with a critical approach, determine and respond to learning needs.
Competences	Learning Competence	2- Thinks critically and dialectically (able to produce dialectical, critical, counter-thesis and synthesis) on the nature of information, its technical infrastructure and social, cultural and ideological context and effects (has the learning skills necessary for decision-making and knowledge-based, responsible action, comprehends the options , discusses, synthesizes the available options, creates ideas.)	A	T	A	T	T	T	T	T	T	T	A	T	2- Direct the education received to a higher education level in the same field or to an occupation in the same level.	Learning Competence	Competences	
		3- He is future-oriented, has the motivation and learning skills necessary for his personal and professional development, makes plans for this and implements them..	A	T	A	T	A	T	A	T	A	T	A	A	A			3- Gain awareness of lifelong learning
		4- Acts with the awareness of lifelong learning.	A	A	A	A	A	A	A	A	A	A	A	A				

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Competences	Communication and Social Competence	1- Presents his ideas, project and solution proposals to his peers, consultants and potential users/employers in a well-structured and consistent manner, basing them on quantitative and qualitative data.	A	T						A	A	T			1-	Transfer the ideas based on the basic knowledge and skills acquired within the field through written and oral communication.	Communication and Social Competence	Competences	
		2- It expresses an internalized, personal, comprehensive world view.	T		T					T		T			2-	Share the ideas and solution proposals to problems about issues within the field with professionals and non-professionals.			
		3- Follows the developments in the field and communicates with colleagues by using a foreign language at least at the European Language Portfolio A2 General Level; Uses language, symbols and texts interactively.												A	T	3-			Monitor the developments in the field and communicate with peers by using a foreign language at least at a level of European Language Portfolio A2 General Level.
		4- Interactively uses the information and communication technologies required by the field, along with computer software at least at the Basic Level of the European Computer Usage License required by the field.			A	A	A			A	A					4-			Use informatics and communication technologies with at least a minimum level of European Computer Driving License Basic Level software knowledge.
Competences	Field Specific Competence	1- Develops creative answers/solutions for abstract and concrete problems.	A	T				A	T	A	T			1-	Possess social, scientific, cultural and ethic values on the stages of gathering, implementation and release of the results of data related to the field.	Field Specific Competence	Competences		
		2- Collects, evaluates and interprets data that will form the necessary basis for making decisions, taking into account possible social and ethical consequences in processes related to the field.	A							A	A			T	2-			Possess sufficient consciousness about the issues of universality of social rights, social justice, quality, cultural values and also, environmental protection, worker's health and security.	
		3- Makes judgments based on knowledge of relevant social, scientific and ethical problems.				A				A									

**A: It is related to basic field proficiency.**

**T: It is related to TYYÇ.**

**A T: It is associated with both the Basic Area and TYYÇ.**

- 1- To be able to analyze the basic issues of Mapping and Cadastre operations, to have the ability to find solutions to professional problems with analytical thinking ability.
- 2- Having the knowledge and skills to make fast and precise measurements according to today's measurement methods, using simple and modern measuring instruments.
- 3- Having knowledge of classical map drawing methods and having the ability to effectively use computer-aided map drawing and other CAD applications.
- 4- Having sufficient knowledge and application skills on property rights-based issues such as cadastral works, expropriation and land consolidation.
- 5- Having knowledge about map making and 3D modeling with Photogrammetric and Remote Sensing methods.
- 6- To have sufficient knowledge and be able to apply Space Measurement Techniques, which are becoming more and more common in cartography.
- 7- Having technical and legal knowledge and the ability to apply it, such as planning, urban and rural area regulations, zoning applications.
- 8- Having sufficient knowledge and skills in digitizing the cadastral maps required for Geographic Information Systems, transferring them to the computer environment, and researching and collecting all location-based data.
- 9- Having the ability to work effectively individually and in team work and the self-confidence to take on disciplined responsibilities.
- 10- Being aware of the necessity of lifelong learning, following scientific and technological developments and having the effort to constantly renew oneself.
- 11- Follows the information in the field using a foreign language and communicates with colleagues.
- 12- Having sufficient knowledge and awareness on occupational safety, worker health, social security rights, quality control and management and environmental protection.