

## **TRAINING PROGRAM OF LAND MANAGEMENT**

*(Issued together with Decision No 469/QĐ-ĐHTĐ 20/08/2021 by Rector of Tay Do University)*

### **A. GENERAL INFORMATION**

1. Name of training program (English name)	Land Management
2. Degree	Higher education
3. Training codes	7850103
4. Admission candidates:	Graduated from high school or equivalent
5. Training time	4.5 years
6. Training form	Full time
7. Required credits	150 (Not include Military Training and Physical Education)
8. Scale	10.0 scale or 4.00 scale
9. Diploma	Engineer in Land Management
10. Employment positions	<ul style="list-style-type: none"><li>- Working at state agencies such as: People's Committees at all levels; Resources and Environmental office; Land registration office; Resource base and environment; Department of Science and Technology; Department of Agriculture and Rural Development; Banks (price appraisal); industry zones; Economic and logistics zones in the Army and Police manage land,...</li><li>- Working at companies such as: Surveying company, Real estate brokerage and appraisal company; projects related to land and real estate.</li><li>- Research staff; Teaching at Institutes, Universities, Colleges, and Intermediate Schools</li></ul>
11. Possibility for further education	After graduating, may be continuing study MSc. program, PhD. program to improve the knowledge and and learn more majors related to land management such as the law; soil science

## **B. TRAINING OBJECTIVE AND LEARNING OUTCOMES**

### **I. Training Objectives**

#### **1. General objectives**

The university training program in Land Management is to train land management engineers with good political qualities, ethics, and awareness; capacity for autonomy and responsibility; practical skills; basic knowledge; Deep professional knowledge such as: land law; land use planning; cadastral surveying; information technology in land management; Soil science; real estate; manage and exploit land resources,... have a sense of discipline and civic responsibility; to have a healthy body; ability to adapt to diverse work; Have the ability to self-study and research to improve your qualifications and absorb new scientific and technical achievements to meet the requirements of international integration.

#### **2. Specific objectives**

##### **2.1. Knowledges**

###### ***a. General education knowledges***

G1: Equipping students with knowledge of political theory; general law; Defense - Security; Physical education; Basic knowledge of natural and social sciences according to regulations.

G2: Applying information technology and foreign languages well to the level of being able to understand familiar subject areas in land management work; use foreign languages to express and handle situations in land management; Receive and process new software at work.

###### ***b. Basic industry knowledges***

G3: Having depth knowledge in the field of land law; real estate business, land registration, land statistics and inventory.

G4: Basic knowledge about the Earth's crust; pedology; soil fertility; land evaluation; clean agriculture, urban agriculture; Climate Change; management and environmental impact assessment.

G5: Basic understanding of industry techniques and technology: General geodesy; cadastral maps; GIS; GPS; Geodetic surveying and cadastral database.

###### ***c. Professional knowledges***

G6: Having depth knowledge of economics; development Planning; Land economics; valuation and real estate; land use planning; rural and urban development planning; land resource management and exploitation; real estate market.

G7: Possessing specialized knowledge of cadastral surveying; applied remote sensing; land information system; applying information technology in editing thematic maps; Design cadastral information system and process measurement data.

G8: Professional knowledge of establishing, storing and managing cadastral records; Inspection and resolution of land disputes, land allocation, lease and land recovery.

G9: Knowledge about wetlands, management and assessment of soil pollution, degradation and land protection.

G10: Practical professional knowledge at local agencies: industry practice; graduation practice

## 2.2. Skills

G11: Being able to proficiently apply legal documents and State policies in the field of land and State management of land from central to local levels.

G12: Proficient in using modern technical tools such as: Full measuring machine, GPS devices and specialized application software.

G13: Handle common situations in land management.

G14: Having effective communication skills; write reports; present; discuss; negotiation; present opinions related to land management.

## 2.3. Attitudes

G15: Possessing political qualities; morality, good sense; dynamic, creative and have a high sense of responsibility in career and life, and have good health to serve the cause of building and protecting the country.

G16: Self-directed learning; accumulation of knowledge; experience to improve professional qualifications in land management.

## II. Learning outcomes

### 2.1. Knowledges

#### 2.1.1 General knowledges

Learning outcomes	Explain
LO1	Applying knowledge about political theory; National Defense - Security well implements the Party's policies and guidelines and State laws related to land management.
LO2	Applying basic knowledge of mathematics well; social sciences, general law, information technology and foreign languages in land management.

#### 2.1.2 Professional knowledges

Learning outcomes	Explain
LO3	Applying knowledge of maps; geodetic; measuring; Processing data to build cadastral maps; other types of thematic maps; global positioning system, GIS, remote sensing; analyze and design land

<b>Learning outcomes</b>	<b>Explain</b>
	database; Managing land information to serve land management and use.
LO4	Economic analysis of land resources; Applying provisions of law and State management of land such as: land allocation; land recovery; land registration; land statistics; land inspection; land valuation; storing cadastral records; real estate market management; to serve as a theoretical and practical foundation to effectively carry out the work of the Land Management sector.
LO5	Planning evaluate options and land use plans; urban planning and rural residential areas; urban management; Effective management and exploitation of land resources.
LO6	Analysis and evaluation of soil structure; Earth environment; soil, soil fertility, soil degradation, wetland ecosystem; land assessment; clean agriculture; management of environmental impact assessment and adaptation to climate change.
LO7	Applying professional knowledge into practical work experience at local agencies: graduation internship; Practical internship in land management.

## 2.2 Skills

### 2.2.1. Professional skills

<b>Learning outcomes</b>	<b>Explain</b>
LO8	Having defined skills; Choose appropriate solutions to solve and improve problems related to the practical work of the Land Management.
LO9	Having innovative thinking; Creativity and idea generation skills; start-up development; create jobs for yourself and others in a professional environment.
LO10	Applying investigative skills; collect and process information to serve the resolution of problems arising in the field of land management; Managing work related to land management and use: registration and issuance of land use rights certificates; land

Learning outcomes	Explain
	evaluation; land classification; land valuation; and establish planning options and land use plans
LO11	Using software proficiently and specialized surveying machines to serve the work of measuring and creating cadastral maps; develop and edit maps of current land use status; land use planning map; and other thematic maps; ... serving the State management of land.

### 2.2.2. Soft skills

Learning outcomes	Explain
LO12	Making good use of information technology; exploiting information on the internet; Drafting and storing documents to meet basic tasks. Use foreign languages well at level 3/6 of Vietnam's foreign language competency framework (equivalent to TOEIC level $\geq 450$ points) to exchange information; and read specialized documents relevant to the job.
LO13	Being flexible in communication; Present and evaluate the professional results of yourself and your colleagues

### 2.2.3. Ability to be autonomous and responsible

Students need to achieve the capacity for autonomy and responsibility presented in the Table for the training process to be effective.

Learning outcomes	Explain
LO14	Having a political stance; strong thoughts; good sense of organization and discipline; have a sense of responsibility for assigned work; progressive; forming a sense of lifelong learning; Accumulate experience to improve qualifications in the field of land management; Able to draw conclusions on professional issues; expertise in land management and some complex technical issues.
LO15	Having professional leadership capacity; professional; instruct and supervise others to perform tasks effectively; coordination

	planning; promote collective intelligence; Have the ability to evaluate and improve professional activities.
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### 2.3 Professional orientation; employment positions of students after graduation

Land Management Engineers can take on the following positions:

- Working at state agencies such as: People's Committees at all levels; Resources and Environmental office; Land registration office; Resource base and environment; Department of Science and Technology; Department of Agriculture and Rural Development; Banks (price appraisal); industry zones; Economic and logistics zones in the Army and Police manage land,...

- Working at companies such as: Surveying company, Real estate brokerage and appraisal company; projects related to land and real estate.

- Research staff; Teaching at Institutes, Universities, Colleges, and Intermediate Schools

### 2.4 Ability to learn and improve qualifications after graduation

After graduating, may be continuing study MSc. program, PhD. program to improve the knowledge and and learn more majors related to land management such as the law; soil science

### III. The content of studying program (name and credit for each subject): 161 credits (not include Military Training and Physical Education)

Number	Total credit	Credits		
		Total	T	P
1	General education knowledge	44	33	11
2	Basic industry knowledge	101	72	29
3	Professional knowledge	16	0	16
	<b>Total</b>	<b>161</b>	<b>105</b>	<b>56</b>

#### 1. General education knowledges

Number	Code	Subject	Credits		
			Total	T	P
1	0301001769	Marxist - Leninist Philosophy	3	3	
2	0301001825	Marxist - Leninist Political Economy	2	2	
3	0301001826	Scientific Socialism	2	2	
4	0301001827	History of the Communist Party of Vietnamese	2	2	
5	0301000665	Ho Chi Minh Ideology	2	2	
6	0301000946	TOEIC 1	4	4	

Number	Code	Subject	Credits		
			Total	T	P
7	0301000947	TOEIC 2	4	4	
8	0301001673	Basic informatics	3		3
9	0301000667	General Law	2	2	
10	0301000669	Advanced Mathematics	3	3	
11	0301001681	General of the Earth	2	2	
12	0301000807	Agricultural Economics & Rural Development	2	2	
13	0301000650	Military Training**	8		
14	0301001035	Physical Education 1 - volleyball**	1		1
15	0301001036	Physical Education 1 - Football**			
16	0301001037	Physical Education 1 - Badminton**			
17	0301000660	Physical Education 2 - volleyball **	1		1
18	0301001038	Physical Education 2 - Football **			
19	0301001039	Physical Education 2 - Badminton **			
20	0301001030	Physical Education 3 - volleyball **	1		1
21	0301000661	Physical Education 3 - Football **			
22	0301000662	Physical Education 3 - Badminton **			
<b>Optional Knowledges</b>			<b>2</b>	<b>2</b>	
23	0301000603	General text and archive studies	2	2	
24	0301000643	General sociology	2	2	
25	0301000288	Basic logic	2	2	
26	0301000549	Vietnamese Practice	2	2	
<b>Total</b>			<b>44</b>	<b>33</b>	<b>11</b>

## 2. Professional educational knowledges

### 2.1 Basic industry knowledge

Number	Code	Subject	Credits		
			Total	T	P
1	0301000952	General geology	2	2	
2	0301001860	Basic geodesy	2	1	1
3	0301000954	Pedology	3	2	1
4	0301000955	Soil fertility	3	2	1
5	0301000780	Land Law	3	3	
6	0301000957	Land Evaluation	2	1	1
7	0301001395	State Management of Land	2	2	

Number	Code	Subject	Credits		
			Total	T	P
8	0301002360	Photo geodesy	2	1	1
9	030100962	Techniques of Cadastral Mapping	3	1	2
10	0301002361	Global positioning and geographic information system (GIS-GPS)	3	1	2
11	0301002362	Real estate business law	2	2	
12	0301000964	Cadastral Database Management System	2	1	1
13	0301002180	Introduction to scientific research	2	2	
14	0301001858	Registration of land and real estate	2	1	1
15	0301001352	Climate change and adaptation	2	2	
16	0301000980	Management and environmental Impact Assessment	2	2	
17	0301001861	Urban agriculture	2	2	
18	0301000959	Environment and Natural Resource Managerment	2	2	
19	0301001862	Land statistics and inventories	2	1	1
20	0301001865	Geostatistics	2	1	1
21	0301000989	Clean Agriculture and Sustainability	2	2	
<b>Total</b>			<b>47</b>	<b>34</b>	<b>13</b>

## 2.2 Professional knowledges

Number	Code	Subject	Credits		
			Total	T	P
1	0301002476	Cadastral measurement	3	1	2
2	0301001396	Establishing, storing and management cadastral records	2	1	1
3	0301000968	Remote sensing Application	2	1	1
4	0301000967	Land Information System/Land Information Management LIS/LIM	3	1	2
5	0301002363	Urban development planning	2	2	
6	0301002364	Rural development planning	2	2	
7	0301001040	Land Use Planning	3	2	1
8	0301000976	Regulations on Land Inspection	3	2	1
9	0301002365	Real estate and land valuation	2	1	1
10	0301001863	Land allocation, leasing and land acquisition	2	2	
11	0301002366	Specialized informatics (Map editor)	2	1	1

Number	Code	Subject	Credits		
			Total	T	P
12	0301001866	Management and exploitation of land resources	2	2	
13	0301002367	Management and assessment of soil pollution	2	2	
14	0301000986	Soil degradation and land protection	2	2	
15	0301001506	Management & analysis of real estate market	2	2	
16	0301001505	Specialized English for Land management	2	2	
17	0301000978	Scientific research methods - land management	2	2	
18	0301000988	Wetland ecosystem	2	2	
19	0301000977	Analyze and design cadastral information systems	2	1	1
20	0301002787	Field Trip on Land Management: - <i>Wetland,</i> - <i>Urban and rural development planning,</i> - <i>Clean Agriculture and Sustainability,</i> - <i>Management &amp; analysis of real estate market,</i> - <i>Management and exploitation of land resources</i>	4		4
21	0301001867	Graduation Internship – Land Management	6		6
22	0301002370	Type 1: Thesis of Land Management	10		10
		Type 2: (Essay of Land Management and Choose 2 alternative modules)			
23	0301002750	Essay of Land Management	6		6
24	0301002372	High technology in agriculture	2	2	
25	0301000990	Strategy for Land resources sustainable development	2	2	
26	0301002373	Project management and urban construction	2	2	
<b>Total</b>			<b>62</b>	<b>31</b>	<b>31</b>

#### IV. PROGRAM IMPLEMENTATION GUIDELINES

The full-time Land Management engineer training program has 161 credits; (including Military Training and Physical Education); Updated and adjusted according to notice No. 534/TB-DHTĐ, dated July 28, 2021 of the headmaster of Tay Do University; and applies to students enrolling from 2021 - course 16 - onwards. Training period is 4 years, arranged 3 hours/year.

Program content: must organize and implement teaching in the prescribed amount