

Appendix 1

Overview professional qualifications, learning outcomes

Operational levels and Operational level indicators of the external curriculum of the Academies of Architecture

2022

Professional qualification	Learning outcomes	
nr Title qualification	Description of what the student is expected to know (knowledge), to understand (insight) and/or be able to show (skill) after completing a (part of) the learning process.	
Operational level 1	Operational level 2	Operational level 3
Beginner	Advanced	Capable of starting

In order to be able to monitor the progress of a student during the study, three operational levels have been defined. The way in which an operational level is described indicates whether it concerns knowledge, insight and/or skill.

A | General professional qualifications (Conduct)

Professional qualification	Learning outcome		
1 Positioning	Chooses position in design and work and argues this in relation to the position and development of the discipline and the role and responsibility of the designer.		
Operational level 1	Operational level 2	Operational level 3	
Describes knowledge and insights the own discipline and related fields, the social expectations and obligations, the design choices and results of colleagues and basically translates this into their own situation and ambitions;	Adheres to the knowledge of the own discipline and related fields and social developments, analyzes design choices and design results of colleagues, makes connections with own design work and professional practice and applies this in an adapted form;	Shows adequate knowledge of his/her own discipline and related disciplines and social developments, and with this knowledge chooses and substantiates his/her position as a designer;	
Describes the (formal and ethical) professional responsibilities of the profession.	Analyzes (formal and ethical) professional responsibilities.	Acts according to (formal and ethical) professional responsibilities.	
2 Organising	Organises (one's own) work and design processes, works together effectively with colleagues, different beneficiaries, disciplines concerned and acts responsibly on the basis of one's insights into tactical, strategic and organisational aspects of business practice and the decision-making process.		
Operational level 1	Operational level 2	Operational level 3	
Oversees the own work and design processes and can within this context:	Overlooks own work- and design processes and those of direct colleagues within the office and/or the project team and can within that context:	Independently takes the responsibility for design and realization projects and can within that context:	
Manage the own activities with regard to time and quality with some guidance;	Manage one's own activities almost independently and the activities of others with some guidance regarding time, quality and finances;	Regarding content, finances and time manage (sub) projects;	
Coordinate the own activities with those of colleagues;	Achieve adequate results in collaboration with colleagues and/or external stakeholders;	Effective collaboration internally and externally;	
Identify bottlenecks and unexpected circumstances.	Anticipate and respond adequately to bottlenecks and unexpected circumstances.	Effectively coordinate processes and make decisions in complex and unpredictable circumstances.	
3 Interpersonal skills	Acts in professional practice situations with an awareness of social considerations and responsibilities, professional values/norms and judicial frameworks, and identifies tasks, opportunities or problems.		
Operational level 1	Operational level 2	Operational level 3	
Describes the social responsibilities associated with a design;	Identifies social responsibilities and developments and relates them to a project that is being worked on;	Identifies social responsibilities and developments in connection with the project being worked on;	
Describes the professional values and norms and the way in which they express themselves in the interaction with other parties;	Acts in accordance with professional values and norms in dealings with other parties;	Behaves in all professional situations in accordance with the values and standards associated with the professional role;	
Describes in outline the legal frameworks of a project.	Processes relevant legal frameworks in the project.	Incorporates relevant legal frameworks into the project and thereby addresses and solves problems.	
4 Communicating	Communicates in a convincing manner (visually, in writing and orally) to a diverse audience about his professional position, design approach, working method, research and/or design project.		
Operational level 1	Operational level 2	Operational level 3	
Shows awareness of the information needs of target groups;	Adjusts information selection target audience;	Adjust the information selection based on the target group and purpose of the presentation;	
Prepare presentations (in part);	Present in collaboration with to external parties or attends presentations;	Presents in collaboration with or independently to various external parties;	
Consults internally and prepare external consultation;	Consults (also) with various external parties involved;	Consults independently with various external parties involved;	
Consciously opts for means and techniques;	Applies resources and techniques adequately;	Means and techniques are optimally and creatively used;	
Is broadly targeted and efficient in the transfer of information;	Is targeted and effective in the transfer of information;	Is purposeful, effective and convincing in the transfer of information;	
Is basically empathetic in the interaction with other parties.	Is empathetic in interacting with other parties.	Is empathetic in the interaction with other parties while respecting his/her own goal.	

B | Professional qualifications (Domain)

Professional qualification	Learning outcome	
5 Enterprising	Recognises how assignments are determined, defined, initiated and/or acquired and organised professionally, contributes (as part of a team) to defining the assignment, feasibility research and drawing up project plans. Takes initiative to obtain (more) responsibility with regards to the organisation of the firm and/or project management.	
Operational level 1	Operational level 2	Operational level 3
Displays within the own work:	Displays within projects that is being worked on:	Displays within the design practice:
Knowledge of the business framework;	Knowledge of the business framework;	Knowledge of the business frameworks, which business agreements are relevant and how they are entered into and recorded;
Entrepreneurial behavior;	Entrepreneurial behavior;	Entrepreneurial behavior;
The ability to identify opportunities and take initiative;	The ability to identify opportunities, to take initiative;	The ability to identify opportunities and take initiative;
	Knowledge of resources and activities needed to acquire/initiate assignments;	Apply resources and activities necessary for acquiring/initiating assignments;
Inventories and analyzes under guiding the wishes and ambitions of clients and stakeholders;	Develops independently for smaller assignments or in collaboration for more complex assignments solution directions based on the wishes and ambitions of clients and stakeholders;	Advises solution directions based on feasibility studies conducted on the basis of the wishes and ambitions of clients and stakeholders;
Takes note of complex schedule of requirements or prepares these under supervision for simple assignments.	If necessary, sets up a program of demands.	Draws up a schedule of requirements for this and understands the relationship between this schedule of requirements and the design based on it.
6 Designing	Researches, analyses and defines functional and conceptual points of departure for the design and, creates the foundation for a design in a structure design or functional-spatial concept, and develops this into an integral final design and/or spatial advice.	
Operational level 1	Operational level 2	Operational level 3
Formulates a simple spatial problem definition;	Formulates a spatial problem statement using relevant analysis and/or research results;	Formulates a clear spatial problem definition based on targeted research prior to and during the design process;
Translates starting points and preconditions in a spatial design;	Translates starting points and preconditions coherently in spatial design;	Translates complex starting points and preconditions coherently into a convincing spatial design;
Recognizes relevant design instruments and design techniques associated with the design question;	Applies design instruments and design techniques relevant to the design question;	Effectively applies design instruments and design techniques appropriate to the design question;
Brings some coherence between different scale levels and design domains;	Brings coherence between different scales and design domains;	Switches effectively between different scales and design domains;
Pays attention to the underpinning of design choices.	Can fundamentally substantiate design choices.	Can convincingly substantiate design choices.
7 Preparation realisation phase	Has a clear picture of the technical, financial, contractual and judicial aspects of the design, including the consequences for the realisation preparation phase, adequately applies these insights and can advise the client about it.	
Operational level 1	Operational level 2	Operational level 3
Works with guidance on the technical elaboration or the specified spatial advice of (parts of) a design, determines the necessary technical specifications, communicates this internally and integrates advice from external experts;	Works independently on the technical elaboration or the specified spatial advice of (parts of) a simple design or under supervision of a more complex design, advises on the necessary technical specifications and integrates advice from external experts;	Works independently on the technical elaboration or the specified spatial advice of the design, advises on the required technical specification and integrates advice from external experts;
Names the process documents and/or application of permits for realization of the design;	Prepares process documents under supervision and/or applies for permits for realization of the design;	Draws up process documents in collaboration and/or applies for permits for the realization of the design;
Shows experience with the consequences of design proposals for the global financial feasibility of the design or spatial advice;	Shows experience with the consequences of design proposals for the financial feasibility of the design or spatial advice on the basis of own projects;	Shows to be able to advise the client on the financial feasibility of the design or spatial advice;
Names different ways of contracting and tendering, including relevant legislation and regulations.	Point out to be able to provide global advice on contracting and tendering, including legislation and regulations.	Shows to be able to advise the client on various methods of contracting and tendering, including legislation and regulations.
8 Supervision implementation and execution	Comprehends the aspects of implementation of the design, on the basis of which he manages the implementation and/or supervises it and checks the results	
Operational level 1	Operational level 2	Operational level 3
Works under supervision on the elaboration of the design and/or spatial advice for the construction or implementation;	Works together with others on the elaboration of the design and/or spatial advice for the implementation or construction;	Works independently on and/or supervises the development of the design and/or spatial advice for the execution or implementation;
Checks under supervision aesthetic aspects of the elaboration and realization of the design or implementation of spatial advice;	Checks independently and/or together with others aesthetic aspects of the elaboration and realization of the design or implementation of spatial advice;	Independently checks and/or supervises the control of aesthetic aspects of the development and realization of the design or implementation of spatial advice;
Demonstrates in general knowledge of the responsibilities and communication processes with regard to management / supervision.	Names the responsibilities and communication processes with regard to the management/supervision.	Demonstrates adequate knowledge of management and related responsibilities.