

# **AILA CPD TREE OF KNOWLEDGE**

This 'Tree of Knowledge' provides a list of core competencies on which the CPD framework will evolve, and is designed to provide a filing repository for future CPD resources.



## **DESIGNING AND CONSTRUCTING**

### **Landscape and Urban Design History**

- History and development of the profession
- Landscape Architecture and Urban Design in Australia
- Historic Landscapes and Settlements
- Landscape in literature and the visual arts

### **Design Theory and Methodologies**

- Appreciation and Interpretation of a brief
- Research –survey, assessment, critical analysis
- Communication - visual – clear presentation and reporting, presenting, discussion facilitator
- Drawing as a design tool and the use of software to design and visualise
- Concept Design and Master planning
- Identifying emerging trends
- Public Policy and Regulation

### **Technical Skills**

- Production of information and documentation
- Quality Assessment/Auditing
- Relevant legislation, codes and standards and product specification
- Administration and Project Management (budgets, programme, valuations, EPC, certification)
- Utilising and using CAD, BIM, GIS programmes
- Risk Assessment

### **Collaboration**

- Collaboration working with other professionals/ within a multidisciplinary team
- Working with ecologists, horticulturists and other natural scientists
- Working with structural and civil engineers and architects
- Community/Stakeholder Consultation, Asset Management

### **Materials**

- Materials and their properties
- Construction methods
- Product information

### **Horticulture and Living Landscapes**

- Horticulture:- Food, Forestry, Aesthetics, Amenity
- Soil, plant water relationships

- Maintenance/Management
- Irrigation – types, uses and limitations

### **Inclusive Design**

- The principles of universal access and inclusive design and CPTED
- Identifying and working with user groups - design needs for special locations, populations
- Impact of accessible design on historical values – conflicts researched, solutions explored



## **ENVIRONMENT**

### **Natural Systems**

- Understanding and identifying natural systems
- Environmental factors – effect of climate and microclimate, aspect, slope, geology, hydrology, soils, vegetation, structures

### **Cultural Systems**

- Understanding the impact of planning and design choices on natural, heritage and cultural landscapes

### **Regional Landscapes**

- Understanding and interpreting regional landscapes

### **Climate Change**

- Understanding the science and impact of climate change on urban, rural and natural landscapes and the organisms (including human) supported by those landscapes
- Understanding and communicating the importance of low carbon design – embodied energy, material lifecycles, material supply impacts, ongoing energy inputs, minimising waste using existing materials

### **Landscape Science and Ecology**

- Concepts in landscape ecology
- Impacts of design decisions on biodiversity
- Cities and towns as natural systems

### **Stewardship**

- Ethics and guardianship
- Landscape Architect's responsibility to society

### **EIS/EIA**

- Relevant regulations, codes, guidelines and standards



## **PLANNING Design, Planning and Management at various scales and Applications**

### **Planning Theory**

- Process and Thinking
- Preparing strategies, policies, provisions and proposals (for:- topic areas e.g. Green Infrastructure, Transport, Tourism, Economic development, Recreation/Health, History/Culture, Agriculture – food production, Rural plans) Reclamation

### **Contextual Assessment and Analysis**

- Visual Impact Assessment
- Landscape Assessment -Assessing landscape values
- Indigenous interpretations of landscape
- Cultural, historical and scientific values and significance

### **Legislation and Planning Instruments**

- Understanding Federal, State and Local Strategic Plans
- Interpreting Federal, State and Local Authority Planning Policies, Guidelines and Vision Statements
- Understanding Integrated Planning Instruments
- Interpretation of Strategic Plans, Vision Statements, Guidelines, By-laws
- The role of legislation, policies and planning schemes in protecting landscape values
- International organisations and governance, (UNESCO etc.)
- Development Assessment and Appeals

### **Social Development and Demographics**

- Collaboration/Stewardship
- Communities – Urban and Rural planning and design
- Harnessing community creativity
- Town Planning
- Urban Planning (possible topics :- Theories of urban design, Qualities of successful places and spaces, Design, health and wellbeing, Involving communities in planning and design)
- Landscapes (possible topics:- Accessible landscapes, Landscape as economic and political space, Aesthetic values and significance, Rural Development and Protected Landscapes)
- Accessing Grants and bursaries



## LEGISLATION

### Laws, Regulations, Codes, Standards

- Understanding professional responsibilities to work within Legal framework
- Understanding and interpreting Laws, Regulations, Codes and Standards
- Understanding Civil Law and Criminal Law
- Understanding Professional Indemnity and Public Liability
- International organisations and governance, (UNESCO etc.)

### Legal frameworks and processes

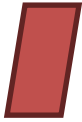
- Relevant Australian legal systems and processes, civil liabilities, contract law, common law, tort
- Submissions, Courts and Appeals process

### Relevant legislation and regulations – Knowledge of:-

- Workplace health and safety
- BCA - National Construction Code (replaces BCA), Australian Standards
- Equitable Access – Universal access legislation, standards and guidelines
- Environmental and sustainability legislation
- Copyright – Intellectual Property Law
- Environmental Protection Laws- Vegetation Management
- Planning, heritage and other legislation, guidelines and processes in various states
- Trades Practices Act
- Indigenous heritage acts in various states
- Corporate Law
- Employment Law

### Risk Assessment – Manage Risk and Liability

- Risk assessment (see PI and PL) understanding the particular industry legislation to D & C
- Designing for special risk situations, e.g. bushfire, coastal risks, unstable cliffs, karst landscapes, EVA's



# PROFESSIONAL PRACTICE

(Knowledge has to be applicable to those in Private Practice and Government Employees/Employers)

## Ethics and Codes of Conduct

- Current AILA codes of conduct and discipline and professional ethics
- Promoting the profession, best practice, sharing knowledge, lifelong learning
- Resolving moral and ethical dilemmas

## Professional Organisation- AILA

- Knowledge of the AILA corporate structure
- Knowledge of the organizations history and role for the C21<sup>st</sup>

## Business Management – Aspects of Practice

- Practice structures, business styles and legal status
- Public and Private practice - how do they differ, what do they have in common?
- Large and small practices – how do they differ, what do they have in common?
- Regional and urban practices - how do they differ, what do they have in common?
- Time management and recording
- Staff management, training and development
- Practice finance, business planning, funding and taxation.
- Fee calculation, negotiation and tendering
- Human and material resource management, job costing and cash flow

## Marketing

- Marketing and promotion – C21<sup>st</sup> methods

## Service Agreements and Terms of Engagement

- Landscape Architect's contracts, terms of engagement, scope of services, letters of appointment, relevant legislation

## Legal extent/limits of Professional Role

- Team coordination if lead consultant
- Risk management

## Professional Indemnity and Public Liability Insurance

- Duty of care, professional liability, negligence and professional indemnity
- Understanding when to seek Legal advice

## Forms of Contract and General Conditions of Contract

- Rights and responsibilities of Principal, Contractor and Landscape Architect as Superintendent

- Relevant General Conditions of Contract and Tendering
- Tendering, forms of contract and sub-contract

### **Project Management**

- Preparing a brief, interpreting a brief
- Communicating, progress reporting and providing timely advice
- Cost monitoring and control and financial management
- Programming of services
- Team-work and leadership

### **Contracts Administration**

- Duties and powers of the Landscape Architect as Superintendent
- Application and use of contract documentation
- Site processes, inspections, instructions, progress recording, claims processing, payment and completion

### **QA/QM ISO 90001**

- Quality management, QA requirements and systems, recording

### **Technology- CAD/BIM/ GIS - Industry Graphic Standards**

### **Communication:-Dealing with clients, end users and the delivery of services**

- Managing client relationships
- Preparing a brief, interpreting a brief
- Timely involvement of end users and communities
- Consensus and team building, preparing agendas, facilitating meetings