

Dual Diploma and Advanced Diploma of Civil Construction Design (Engineers Australia recommended)

Please read:

- Units in **bold** are EA mandated (and/or core). The remainder are chosen electives as per EA's approved list (Approved Curriculum V2).
- Units labelled with **Update** are already available via RTO Works and will be updated in accordance with EA's recommendations and additional resources will be developed for their assessments. These units can be purchased and delivered now, and the updated resources will become available to you according to this schedule. Please note these existing resources require a high level of contextualisation by the RTO.
- As per Version 2 of EA's proposed curriculum, units should be delivered in a specific sequence. Please contact RTO Works for TAS development services.
- eLearning SCORM/Didasko Online LMS to come for all listed units, please enquire about any specific eLearning of interest.
- For more information about this program please read our article about Engineers Australia's VET Accreditation Criteria for RTOs [here](#).
- If you would like to purchase RTO Works learning and assessment resources for this program, please find them [here](#).

Cluster Key	Estimated delivery
Cluster 1 – Building technical foundations (Stage 1)	16/05/25
Cluster 2 – Building technical foundations (Stage 2)	14/07/25
Cluster 3 – Developing technical skills	23/06/25
Cluster 4 – Working with data	28/07/25
Cluster 5 – The Civil Design Professional (Stage 1)	01/09/25
Cluster 6 – Preparing Detailed Designs (Stage 1)	29/09/25
Cluster 7 – The Civil Design Professional (Stage 2)	20/10/25
Cluster 8 – Preparing Detailed Designs (Stage 2)	17/11/25
Cluster 9 – The Civil Design Professional (Stage 3)	15/12/25

Unit code	Unit title	Diploma	Adv Dip	New/update unit	Est. completion date
Diploma (20 units)					
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment	Group D		New development	Cluster 1 – Building technical foundations (Stage 1) 16/05/25
MEM23004A	Apply technical mathematics	Group D		New development	
MEM30031A	Operate computer-aided design (CAD) system to produce basic drawing elements	Group B		Update	Cluster 3 – Developing technical skills 23/06/25
MEM30033A	Use CAD to create and display 3-D models	Group B		New development	
MEM30005A*	Calculate force systems within simple beam structures	Group D		New development	Cluster 2 – Building technical foundations (Stage 2) 14/07/25
MEM30006A*	Calculate stresses in simple structures	Group D		New development	
MEM23109	Apply engineering mechanics principles	Other		New development	
MSL924003**	Process and interpret data	Group D		New development	Cluster 4 – Working with data 28/07/25
MSL925004*	Analyse data and report results	Group D		New development	
CPPBDN6106	Produce building information modelling for building design projects	Other		New development	04/08/25
CPPCOM4001	Manage own work, professional development and ethical behaviour	Other		New development	Cluster 5 – The Civil Design Professional (Stage 1) 01/09/25
RIILAT402E	Provide leadership in the supervision of diverse work teams	Group D	Group B	Update	
BSBPMG537	Manage project procurement	Group A	Group A	Update	
BSBINS501	Implement information and knowledge management systems	Group A		Update	

BSBPEF501	Manage personal and professional development	Group A	Group A	Update	
RIICWD501E	Prepare detailed design of foundations	Group C		New development	Cluster 6 – Preparing Detailed Designs (Stage 1) 29/09/25
RIICWD505E	Prepare detailed design of landscaping	Group C		New development	
RIICWD530E	Prepare detailed design of surface drainage	Group C		New development	
RIICWD531E	Prepare detailed design of sub-surface drainage	Group C		New development	
RIICWD536E	Prepare detailed design of civil masonry	Group C		New development	
Advanced Diploma (12 units)					
BSBWHS616	Apply safe design principles to control WHS risks		Core	Update	Cluster 7 – The Civil Design Professional (Stage 2) 20/10/25
RIIQUA601E	Establish and maintain a quality system		Core	Update	
BSBTWK502	Manage team effectiveness		Core	Update	
RIICWD533E	Prepare detailed design of civil concrete structures		Group B	Update	Cluster 8 – Preparing Detailed Designs (Stage 2) 17/11/25
RIICWD507D	Prepare detailed geotechnical design		Group B	Update	
RIICWD509E	Prepare detailed design of urban roads		Group B	New development	
RIICWD534E	Prepare detailed design of civil steel structures		Group B	New development	
RIICWD535E	Prepare detailed design of civil timber structures		Group B	Update	
BSBPMG632	Manage program risk		Core	Update	Cluster 9 – The Civil Design Professional (Stage 3) 15/12/25
BSBPMG531	Manage project time		Group A	Update	
BSBSTR601	Manage innovation and continuous improvement	Group A	Group A	Update	

RIICWD601E	Manage civil works design processes		Core	Update	
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