

Project Title:	Extension to De La Salle College, Dundalk, Co.Louth	Project Reference:	2556	Date:	August 2026
Mechanical Engineer	Ciarán McKenna	Signature:	<i>Ciarán McKenna</i>		
Electrical Engineer:	Ciara Corvan	Signature:	<i>Ciara Corvan</i>		

Probability Assessment (P)		
Rating	Description	Score
High	Very likely to occur	3
Med	Likely to occur	2
Low	Unlikely to occur	1

Severity Assessment (S)		
Rating	Description	Score
Catastrophic	Fatality	3
Severe	Severe injury or illness	2
Minor	Minor injury or illness	1

Risk Level Assessment (R = P × S)	
Rating	Actions
6 - 9	Activity not permitted. Alternative solution to be sought.
3 - 4	Contractor to address specifically in Site Safety Plan & Method Statements
1 - 2	Contractor to address generally in Method Statements.

Risk Assessment

Item	Element	Activity	Description of Hazard & Subsequent Risk	Design Actions Taken	Residual Risk			Comment for Contractor
					P	S	R	
1	Site Investigations (surrounding areas & environment)	Interface with Public incl. Traffic	Contractor to be responsible for coordinating site access and egress. Where deliveries of major items of plant and equipment may constitute a major risk to pedestrians, then such deliveries are to be carried out at weekends or after hours.	Access / Egress is required. Minimal design actions can be taken from an M&E perspective.	2	1	2	Contractor to address within general Risk Assessments & Method statements in site safety plan and provide a safe method of access and egress. Signage to be provided. Where large loads or unsighted traffic is required to move around the site a banksman should be provided. contractors shall notify all staff when a large item of plant is likely to be blocking a known escape route and advise of alternative arrangements.
2	Removals & Demolitions	Removal of existing services	Dangerous materials/substances - lung or skin damage. Risk of injury due to manual handling of heavy objects.	Material survey carried out. To be highlighted in Preliminary H&S Plan.	2	2	4	Contractor to fully familiarise themselves with the material Survey Report. Contractor should address within general site specific Risk Assessments & Method statements in health & safety plan.
3	Site Investigations (surrounding areas & environment)	Working with live utilities	Existing overhead power lines within the site boundary to be diverted underground to existing switchroom within school. Risks of electrocution.	Allowance provided for investigative and disconnection works for all services.	1	2	2	Contractor to provide their own site survey and prepare Risk Assessments & Method Statements prior to commencing works.
4	Site Investigations (surrounding areas & environment)	New incoming supplies	New utility supplies to be installed, connection to existing poses risks.	A GPR survey and Topographical survey has been carried out. Trenching for new ESB connection cable to terminate at existing switchroom in accordance with ESB Code of Practice. Gas to be isolated prior to connection of new supplies to existing to prevent risk of live gas being exposed.	1	2	2	Utility companies to be notified and communicated with regarding new utility connections.

5	Building Works	Creation of opes for new service routes	Dangerous substances/lung or skin damage	To be highlighted in Preliminary H&S Plan.	2	2	4	Contractor should address within general Risk Assessments & Method statements in health & safety plan. Contractor to ensure to wear full PPE including Hard Hats.
6	Electrical Installation Works	Erection of site lighting fixed on 6 metre columns and associated trenching.	Risks of falling from height and items falling from above. Excavating ground where live services may exist.	Lighting columns have been designed with hinges to allow work to be carried out at ground level. A GPR survey and independent M&E survey carried out.	1	2	2	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan. Contractor to ensure to wear full PPE including Hard Hats.
7	Electrical Installation Works	Installation of new Sub Mains Cables	Electrocution by coming into contact with live electricity.	Suitable riser and containment system designed to facilitate the installation of cabling and safe areas for termination.	1	3	3	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
8	Electrical Installation Works	Installation of new switchboards	Risk of injury due to manual handling of heavy objects & electrocution by coming into contact with live electricity.	New switchboards with appropriate lifting gear and separation compartments and insulation in switchboards.	1	3	3	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
9	Electrical Installation Works	Installation of containment infrastructure	Risk of injury due to working at height and manual handling of heavy objects.	Containment layouts are designed with the potential risk of fall from height controlled to a minimum.	2	2	4	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
10	Electrical Installation Works	Installation, testing and commissioning of new Solar PV Array on rooftop.	Risk of injury due to working at a height.	Solar PV Array has been designed with a clear space for working around while also allowing a clearance distance between array and roof edge. Fall arrest system provided in the area of proposed PV arrays	1	3	3	Contractor should address within general site-specific Risk Assessments & Method statements in health & safety plan.
11	Electrical Installation Works	Installation of Light Fittings or other equipment at high level	Injury due to manual handling and/or falling from height.	Location chosen where access using mobile scaffolding can be deployed and use of LED fittings to minimize maintenance	1	2	2	Contractor should address within general site-specific Risk Assessments & Method statements in health & safety plan.
12	Mechanical Installation Works	Installation of general high-level plant, equipment, pipework and ductwork etc Lifting into position. Heavy MHRV units will need to be installed above ceilings in Teaching Spaces.	Injury due to fall from height or manual handling of heavy equipment	Plant, equipment, pipework and ductwork designed to be installed in ceiling voids as standard however high-level installation are minimized where this can be achieved. Any plant at roof level to have fall arrest system and safe means of access/egress provided.	2	1	2	Contractor should address within general site-specific Risk Assessments & Method statements in health & safety plan.

13	Mechanical Installation Works	Installation of corrosion inhibitor in heating pipework and disinfectant in plumbing pipework	Risk of working with chemicals and injury to personnel.	Corrosion proofer and disinfectant is required in the relevant pipework systems as standard.	2	1	2	Contractor to ensure to wear full PPE including eye protection, face masks and gloves. Contractor should address within general site-specific Risk Assessments & Method statements in health & safety plan.
14	Mechanical & Electrical Installation Works	Installation of wiring and supply to plant areas	Risk of injury due to working in confined spaces and working at height.	Suitable throwback allowed for all boards and equipment laid out accordingly.	2	2	4	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
15	Mechanical & Electrical Installation Works	All Installation works	Work adjacent to live gas (explosion/lung damage)	Gas pipework route will be identified on site. Design team have determined that it is possible to isolate and purge live gas lines during installation phase.	2	2	4	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
16	Mechanical & Electrical Installation Works	All Installation works	Work in attic/roof space with one means of escape. Risk of entrapment.	To be highlighted in Preliminary H&S Plan.	1	2	2	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
17	Mechanical & Electrical Installation Works	All Installation works	Works in vicinity of children or general public (Risk of unauthorised access, injury or child protection violation)	Works programme designed to allow segregation of work areas during termtime	2	2	4	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
18	Mechanical & Electrical Commissioning & Maintenance Works	Commissioning activities, addressing defects and servicing of equipment when works are practically complete	Works in vicinity of children or general public (Risk of unauthorised access, injury or child protection violation)	Works programme designed to allow segregation of work areas during termtime	2	2	4	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
19	Mechanical & Electrical Commissioning & Maintenance Works	Commissioning activities, addressing defects and servicing of equipment when works are practically complete in Tank Room areas.	Work in attic/roof space with one means of escape. Risk of entrapment.	To be highlighted in Preliminary H&S Plan.	1	2	2	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.
20	Mechanical & Electrical Commissioning & Maintenance Works	Commissioning activities, addressing defects and servicing of equipment when works are practically complete	Risk of injury due to electrocution by coming into contact with live electricity, high temperature fluids or gas	Suitable throwback allowed for all boards and equipment. Systems are designed to allow for standard commissioning methods.	1	2	2	Contractor should address within general Risk Assessments & Method Statements in Health & Safety plan.

21	Mechanical & Electrical Commissioning & Maintenance Works	Working with Natural Gas	Contractor will be working with Natural Gas internally and externally. Injury due to fire / explosion and toxic fumes.	Contractor to ensure that all gas supplies have been isolated prior to work commencing and proper safety procedures are observed in line with the Gas Regulations. Gas distribution system designed in accordance with IS820 Non-Domestic Gas Installations and IS265 Installation of Gas Service Pipes. Gas Leak Detection systems shall be deployed in plantrooms where gas enters each building with Gas Pressure Proving systems in Specialists Classrooms as required all linked to the Building Fire Alarms to shut own upon activation.	2	2	4	Contractor should address within general site-specific Risk Assessments and Method Statements in health & safety plan prior to carrying out the works. Full PPE to be used throughout including footwear, eye protection, facemasks and ear protection.
22	Use of Mobile Scaffold	The erection and use of mobile scaffold within the building to access/install/maintain high level fixtures e.g. lights and smoke detectors. Scaffold used to reach double height areas and on stair core	Risk of injury due to working at height	Location of erection of scaffold to be considered & flat stair landing to be utilized. Over reaching to be minimized. Position of fixtures designed in line with flat surface areas to provide safe platform.	1	2	2	Contractor should address within general site-specific Risk Assessments & Method statements in health & safety plan.

NOTE

The risks highlighted above are those which are considered residual risks over and above what a competent contractor should be aware of and reasonably deductible from the design process. Other risks and hazards may become apparent during the construction phase but at this stage the contractor must provide site specific risk assessments and method statements in their own safety & health plan and assessed by the PSCS prior to carrying out any works with an associated risk. It remains the responsibility of the Contractor to identify and manage any such additional risks.