

Advancing Food Safety & Quality Through Hygienic Design

EHEDG Advanced Course on Hygienic Design

3rd – 6th November 2025



Novotel Christchurch Cathedral Square
Christchurch

Organizer: EHEDG (NZ Regional Section) <https://ehedg.co.nz>

Date: 3rd November (1/2 day) – 6th November 2025

Training Venue: NOVOTEL Christchurch Cathedral Square, 52 Cathedral Rd. Christchurch
<https://accorevents.com/venues/novotel-christchurch>

Course Overview:

The objective of this course is to provide knowledge and insight into the hygienic design of equipment and hygienic engineering aspects especially for the food, but also for the cosmetics, pharmaceutical, biotechnology and chemical industries. The course is aiming to:

- create awareness of the EHEDG Organisation
- explain the benefits and importance of Hygienic Design
- provide understanding on the key Hygienic Design criteria for equipment and facilities, including detailed engineering concepts.
- communicate the Key Learning Points (KLPs) from all relevant EHEDG guidelines and EHEDG teaching aids.
- The course is given from a practical viewpoint. The theoretical fundamentals of the different subjects are given in a short and concise way, continuously relating these to practice by means of examples on video, pictures or samples.
- Smaller groups are preferred in order to make the course interactive.

Target Groups and their Acquired Competencies

- **Designers from Technical Engineering, Process Development and Quality Assurance**
 - After completion of the EHEDG Advanced Course on Hygienic Design, the qualified participant should be able to successfully discharge the role of sole responsible expert in hygienic design for design, construction or operational teams involved with food machinery or food processing.
- **Management, Marketing and Sales Staff from Design & Mechanical Engineering Companies and Food Manufacturers**
 - Sales and marketing professionals need to have sufficient knowledge of hygienic design to assure compliance with the above requirements. After completion of the EHEDG Advanced Course on Hygienic Design, the qualified participant should be able to successfully discharge the role of executive manager or marketing or sales professional in an organisation involved in designing, installing, maintaining, operating and cleaning food machinery or food processes and systems (in such a way that hygienic safety is established and maintained).
- **Operators, Maintenance and Reliability Engineers, Installers and Sanitarians**
 - After completion of the EHEDG Advanced Course on Hygienic Design, the qualified participant should be competent to operate, maintain, install, clean or identify areas of concern with food machinery or processes in such a way that its hygienic safety is established and maintained, provided the general training is complete.
- **Auditors, Inspectors, Testers, Consultants and Certifiers**
 - After completion of the EHEDG Advanced Course on Hygienic Design, the qualified participant should be competent to verify or test the conformance of hygienic equipment and associated systems and documentation to recognised standards, including [EHEDG Document 8](#).

Course Detail & Timetable

DAY 1 Monday	12:15 - 13:15	45	Light lunch and registration
	13:15 - 14:00	45	Delegates introduction
	14:00 - 15:15	75	What is Hygienic Design / Whois EHEDG / Introducing HD Management
	15:15 - 15:35	20	COFFEE BREAK
	15:35 - 16:50	75	Hygienic Design Criteria
	16:50 - 17:10	20	A short introduction to Engineering Drawings
	17:15 - 18:30	75	Social Hour and Group Networking
DAY 2 Tuesday	8:10 - 9:40	90	Hazards Controlled Though Hygienic Processing
	9:40 - 10:25	45	Part I - Food Factory Design & Process Layout
	10:25 - 10:45	20	COFFEE BREAK
	10:45 - 11:30	45	Part II - Food Factory Design & Process Layout
	11:30 - 12:45	75	Materials of Construction & Surface Treatment of Stainless Steel
	12:45 - 13:30	45	LUNCH
	13:30 - 13:45	15	Review of Morning Session & Questions
	13:45 - 15:00	75	Static Seals & Pipe Couplings
	15:00 - 15:20	20	COFFEE BREAK
	15:20 - 16:20	60	Pumps & Homogenizers
	16:20 - 17:20	20	Case Study Part I / Review of Day 2 & Questions
DAY 3 Wednesday	8:10 - 9:30	80	Valves
	9:30 - 10:30	60	Welding
	10:30 - 10:50	20	COFFEE BREAK
	10:50 - 11:05	15	Review of Morning Session & Questions
	11:05 - 12:35	90	Cleaning & Disinfection
	12:35 - 13:10	45	LUNCH
	13:10 - 14:10	60	Option - Hygienic Design of Conveying Systems or Cleaning Validation
	14:10 - 15:10	60	Equipment Installation & Maintenance + Lubricants
	15:10 - 15:30	20	COFFEE BREAK
	15:30 - 17:30	120	Group Case Studies - Hands-on Group Work
DAY 4 Thursday	8:15 - 8:30	15	Day 3 Review & Questions
	8:30 - 9:30	60	Dry Materials Handling
	9:30 - 10:10	40	Verification & Certification
	10:10 - 10:30	20	COFFEE BREAK
	10:30 - 11:10	60	Legal Requirements & HD Management
	11:10 - 11:40	30	Hygienic Design Risk Management - Guideline #58
	11:40 - 12:10	40	Final Preparation of Case Studies
	12:10 - 12:55	45	LUNCH
	12:55 - 13:10	15	Final Course Review & Questions
	13:10 - 14:40	90	Group Presentations of Case Studies
	14:40 - 16:20	100	WORKING COFFEE BREAK EHEDG Hygienic Design Exam (open book)

Course Qualification

A certificate for successful completion of the final exam – “EHEDG Advanced Course on Hygienic Design” will be delivered to participants. Participants will be offered the opportunity to have their name published in the Training Section of the EHEDG website.

Trainers

The course content will be delivered by; Shane Mason – Engineering Manager, Pentair New Zealand; and David Lowry, Managing Director of Lowry Food Consulting. Both are Authorised EHEDG Trainers and are currently serving co-chairs of the EHEDG NZ Regional Section.

Course Registration

Numbers: This course is limited to the first 24 persons who apply

Course Fees: NZ\$2400 (GST inclusive)

Discounts: Discounts apply for multiple registrations from the same company, students and for EHEDG members. Visit the registration site for details.

Registration: Details at <https://nzifst.org.nz/> - Upcoming Events

Registrations must be received no later than 5pm Wednesday, 15th October.

Links: <https://www.ehedg.org/training-education/>

Location: Novotel Christchurch Cathedral Square is in the centre of the city. Visit their website for accommodation offers: : <https://accorevents.com/offers/ehedge>

Trainers

Shane Mason



Shane Mason is a very experienced professional mechanical engineer, currently working as Engineering / R&D Manager for Pentair Flow Technologies Pacific Pty. Ltd based in Hamilton, a position which he has held since 1992. His career began at MIRINZ designing, building and testing prototype mechanical de-boning equipment for lamb carcasses. He then moved to NDA Engineering in Hamilton as an R&D Engineer / Technical Sales Manager developing farm milk holding tanks and ancillary equipment. He solely developed new techniques for Hydroforming of stainless steel vessel domed ends for both road tankers and large fabricated liquid storage silos.

In his role with Pentair, he has had sole responsibility for the re-development and ongoing support of all products in the current Pentair Hygienic Valve portfolio and including a HOVAP Hygienic pump range. The projects involved: plastic and electronic component design, PLC BUS protocol variants, integration of other OEM pneumatic valves and electronic proximity switches, tooling design and elastomeric seal design.

A key element of this work has been application of hygienic design principles, and he has undertaken both 3-A and EHEDG certification requirements for the products and markets. Shane is an EHEDG Authorised Trainer and is currently co-chairperson of the EHEDG New Zealand Regional Section.

David Lowry



David has 40 years' plus experience in the NZ and global food industry with a primary focus on microbiological quality and safety of food manufacturing operations. David has worked closely with food professionals and regulators across all industry sectors, with special focus on red meat, seafood, poultry, produce, dairy, RTE foods and bottled water operations. He has strong expertise in pathogen and shelf-life troubleshooting, and particularly the importance of hygienic design and effective hygiene programs in food quality and safety.

His professional career started at MIRINZ undertaking fundamental and process-related microbiological research for the meat industry and other aligned protein sector industries, mainly addressing key pathogens, spoilage profiling and predictive modelling and direct technical support to process operations. He then moved to ECOLAB focusing on cleaning and sanitation program development with multiple leadership roles in the Australian and New Zealand operations as well as 6 years spread across Ecolab's global business based in the US and Asia Pacific. David has his own consultancy company – Lowry Food Consulting Ltd.

His extensive experience in microbiological troubleshooting and incident prevention, and the desire to drive hygienic design improvements and efficiencies in the food industry led to his mission to establish a regional section of EHEDG as a primary resource for the NZ Food Industry where he is currently the chairperson of EHEDG New Zealand. David is an EHEDG Authorised Trainer and is currently co-chairperson of the EHEDG New Zealand Regional Section. He is a Fellow of NZIFST and is a regular presenter at Food Industry Conferences and other events.