



## Training Services

Simmonds & Bristow have been providing training to the Water Industry for over 10 years. We take pride in delivering high quality educational packages to persons employed in this field. Our training packages are designed to stimulate the transfer of knowledge through the use of problem solving, dynamic models, and excursions, and the incorporation of instrumentation that is commonly used within the industry. The training programs provided by Simmonds & Bristow concentrate on delivering training that operators can use and apply in "real-life" situations.

Our training systems incorporate troubleshooting, fault finding, and problem solving scenarios to improve the trainees knowledge and awareness of workplace situations that are commonly experienced in the general performance of their duties. We believe that this approach to the delivery of training provides our clients with employees who can improve the treatment and maintenance systems that may currently be in place.



### The latest training techniques

With the ratification of each new version of the Water Industry Training Package, Simmonds & Bristow immediately reviews, revises, updates and restructures its existing training program to the new criteria.

### Courses to suit your needs

Our new system allows for the delivery of packaged training programs or the delivery of individual competency units. These competency units are currently being delivered to students throughout Australia on an external and internal basis. Both methods of delivery are complemented with site visits by our trainers.

Due to the Water Industry's requirements for diversifying their workforce and multi-skilling all employees, we are continuing to deliver short courses, in-house and on-site, catering to the needs of our clients. RPL/RCC available for suitable candidates.

### Simmonds & Bristow's trainers

are qualified engineers, scientists and operators that have been involved in the design, commissioning and ongoing operation of water and wastewater treatment systems.

### 13 Reasons to Choose Simmonds & Bristow:

#### 1. We provide Training Needs Analysis

Simmonds & Bristow recognise that for training to be effective, specific outcomes must be achieved. In many instances, this cannot be attained through the delivery of a standardised course. To ensure that the training of your employees meets your individual requirements, our qualified trainers can perform a site assessment and design a training program that fulfils your requirements. This service minimises the impact on our clients' operations and, in many instances, minimises the expense of training.

#### 2. Our trainers are industry professionals

Our trainers include qualified engineers, scientists and operators who have had extensive experience in the water and wastewater industry. All of our trainers have been involved in the design, commissioning and ongoing operation of water and wastewater treatment systems. To ensure that their experience and knowledge remains current, our trainers are required to rotate into our engineering business unit. This allows them to remain aware of changes in technology that may impact on the water and wastewater industry.

As our trainers are directly involved in the development and maintenance of our training system the experiences that they gain through this rotation system ensures that our training materials are always up to date.

#### 3. We encourage trainee participation during training events

Throughout training events our trainers encourage trainees attending our courses to actively participate in the classroom and during practical exercises. This provides an informal environment in which trainees can voice their opinion, share their ideas and experiences with their colleagues. We have found that this caters for a better learning experience.

#### 4. We provide site visits

To promote better awareness of the water industry Simmonds & Bristow organise site visits to Council and privately owned treatment plants.



# Training Services

## 13 Reasons to Choose Simmonds & Bristow (continued):

### 5. We provide all training materials

Simmonds & Bristow provide all resource material for our trainee including lecture notes and support material. Our training material is constantly reviewed and, when necessary, updated to include recent developments in the water industry.

### 6. We provide flexible training

Our flexibility in delivery methods allows us to mobilize our trainers to remote locations for on-site training using equipment and treatment systems that the trainee uses on a day-to-day basis.

### 7. We use flexible assessment tools (RPL)

As part of the National Water Training Package, Simmonds & Bristow have developed flexible methods for the gathering of direct, indirect and supplementary forms of evidence, including the Recognition of Prior Learning to be used in a trainee's assessment. This flexibility ensures that trainees are not discriminated against due to poor literary skills, geographic location and cultural differences.

### 8. We provide Language, Literacy and Numeracy [LL&N] support as part of our delivery

We will also provide LL&N support if required by the student.

### 9. All Students/Clients, while enrolled, have full access to our Operators help desk support [1800 620 690]

### 10. We can assist employers attain funding for training

Simmonds & Bristow works with several organisations to potentially attain funding for training to reduce the overall cost of training to the employer.

### 11. We encourage excellence through our 'Student Of The Year' promotion

On an annual basis, Simmonds & Bristow reward one student who has achieved excellent results and shown an enthusiastic interest in one of our training courses with an all expenses paid trip to Queensland's Water Industry Conference.

### 12. Course guidance

Our trainers will encourage you to discuss any problems you are having individually on completing your training and assessment. They will, wherever practical, assist you to achieve competency through our flexible delivery and assessment processes.

### 13. Accommodation and transport

Whilst attending our courses, you will need to arrange your own accommodation and transport. Accommodation lists are available on request for recommended motels near our training centres.

## Course Price List

COURSE NAME	COURSE DURATION	COST PER PERSON <sup>1</sup>	CORPORATE GROUP COST <sup>2</sup>
SHORT COURSE IN WATER OR WASTEWATER TREATMENT PLANT OPERATION	5 DAYS	\$1,600	\$8,400 FOR 6 TRAINEES \$1,400 PER ADDITIONAL TRAINEE
SHORT COURSE IN SWIMMING POOL OPERATION	3 DAYS	\$960	\$5,040 FOR 6 TRAINEES \$840 PER ADDITIONAL TRAINEE
SHORT COURSE IN ENVIRONMENTAL SAMPLING	2 DAYS	\$640	\$3,120 FOR 6 TRAINEES \$520 PER ADDITIONAL TRAINEE
CERTIFICATE II- WATER OPERATIONS NWP20107	2 NON-CONSECUTIVE WEEKS TRAINING + 1 DAY FOR ON-SITE ASSESSMENT	\$4,500	\$25,200 FOR 6 TRAINEES \$4,200 PER ADDITIONAL TRAINEE
CERTIFICATE III - WATER OPERATIONS <sup>3</sup> NWP30107	2 NON-CONSECUTIVE WEEKS TRAINING + 1 DAY FOR ON-SITE ASSESSMENT	\$5,400	\$30,600 FOR 6 TRAINEES \$5,120 PER ADDITIONAL TRAINEE

#### List Price Does Include

- All workbooks and manuals
- All laboratory and testing equipment and associated safety equipment for internal courses if applicable
- Morning and afternoon tea for internal courses

#### List Price Does Not Include

- Costs incurred performing site assessment for Training Needs Analysis if needed
- Transportation, freight, meals and accommodation costs that may be incurred by our trainers in performing external training or site visits
- Trainee travel expenses

<sup>1</sup> Simmonds & Bristow reserves the right to change the dates of training should minimum course attendee numbers not be achieved.

<sup>2</sup> For delivery at Simmonds & Bristow's Brisbane facilities OR at the site of your choice. On site courses will incur additional travel and accommodation expenses. Access to plant and equipment will be required for the purpose of practical instruction.

<sup>3</sup> Certificate II is a prerequisite for Certificate III.

All information correct as at 1 January 2009.

#### General Information

- Fees are due 14 days prior to commencement of the course
- Full refunds are made for cancellations received in writing 14 days prior to program. 50% refund for cancellations made within 14 days prior to 7 days of commencement of the course. No refunds 7 days prior to commencement
- Participant substitution before commencement of the course is welcome, just let us know the details



# Commonly Delivered Training Packages

## Short Courses:

### 1) Short Course In Environmental Sampling (2 Day Course)

#### Core Units Of Competency

NWP201B Follow defined OHS procedures and regulatory requirements

#### Elective Units Of Competency

NWP210B Perform basic water quality tests  
NWP218B Perform and record sampling

### 2) Short Course In Swimming Pool Operation (3 Day Course)

#### Core Units Of Competency

NWP201B Follow defined OHS procedures and regulatory requirements

#### Elective Units Of Competency

NWP210B Perform basic water quality tests  
NWP218B Perform and record sampling  
NWP260A Monitor and report basic water treatment processes  
NWP261A Operate and maintain water treatment plant and equipment  
NWP268B Monitor, operate and report chlorine disinfection systems

### 3) Short Course In Water Treatment Plant Operation (5 Day Course)

#### Core Units Of Competency

NWP201B Follow defined OHS procedures and regulatory requirements

NWP202B Apply environmental and licensing procedures

#### Elective Units Of Competency

NWP210B Perform basic water quality tests  
NWP218B Perform and record sampling  
NWP260A Monitor and report basic water treatment processes  
NWP261A Operate and maintain water treatment plant and equipment  
NWP268B Monitor, operate and report chlorine disinfection systems  
NWP276A Monitor, operate and report fluoride dosing systems

### 4) Short Course In Wastewater Treatment Plant Operation (5 Day Course)

#### Core Units Of Competency

NWP201B Follow defined OHS procedures and regulatory requirements

NWP202B Apply environmental and licensing procedures

#### Elective Units Of Competency

NWP210B Perform basic water quality tests  
NWP218B Perform and record sampling  
NWP262A Monitor and report wastewater treatment processes  
NWP263A Operate and maintain wastewater treatment plant and equipment  
NWP268B Monitor, operate and report chlorine disinfection systems

## Certificate II - Water Operations NWP20107

Traineeship - 2 x 5-day training in Brisbane or On-site + one day on-site work assessment.

(All three core units + a minimum of eight elective units must be completed. A maximum of three elective units may be selected from NWP30107)

#### Core Units of Competency

NWP201B Follow defined OHS procedures and regulatory requirements  
NWP202B Apply environmental and licensing procedures  
NWP203B Plan and organize personal work activities

#### Commonly Selected Elective Units of Competency for Water Treatment Plant Operators

NWP210B Perform basic water quality tests  
NWP218B Perform and record sampling  
NWP240B Inspect catchment and surrounding areas  
NWP242B Monitor and report water extraction  
NWP260A Monitor and report basic water treatment processes  
NWP261A Operate and maintain water treatment plant and equipment  
NWP268B Monitor, operate and report chlorine disinfection systems  
NWP271B Monitor, operate and report sedimentation processes  
NWP276A Monitor, operate and report fluoride dosing systems

#### Commonly Selected Elective Units of Competency for Wastewater Treatment Plant Operators

NWP210B Perform basic water quality tests  
NWP218B Perform and record sampling

NWP262A Monitor and report wastewater treatment processes  
NWP263A Operate and maintain wastewater treatment plant and equipment  
NWP268B Monitor, operate and report chlorine disinfection systems  
NWP270B Monitor, operate and report anaerobic processes  
NWP271B Monitor, operate and report sedimentation processes  
NWP272B Monitor, operate and report wastewater lagoon and processes

## Certificate III – Water Operations NWP30107

Traineeship - 4 x 5-day training in Brisbane or On-site + one day on-site work assessment

(All three certificate III core units + a minimum of four and up to eight elective units must be completed. A maximum of three units may be drawn from NWP20107 or NWP40107 in this package)

#### Core Units of Competency

NWP301B Implement, monitor and co-ordinate environmental procedures  
BSBCMN302A Organise personal work priorities and development  
BSBOHS303A Contribute to hazard identification and risk assessment

#### Commonly Selected Elective Units of Competency for Water Treatment Plant Operators

NWP345B Monitor, operate and control water treatment processes  
NWP347B Monitor, operate and control coagulation and flocculation processes  
NWP348B Monitor, operate and control sedimentation and clarification processes  
NWP354B Monitor, operate and control granular

media filtration processes  
NWP355B Monitor, operate and control membrane filtration processes  
NWP356B Monitor, operate and control ion exchange processes  
NWP357B Monitor, operate and control reverse osmosis and nano filtration processes  
NWP363B Monitor performance and control maintenance of treatment plant assets

#### Commonly Selected Elective Units of Competency for Wastewater Treatment Plant Operators

NWP346B Monitor, operate and control wastewater treatment processes  
NWP348B Monitor, operate and control sedimentation and clarification processes  
NWP350B Monitor, operate and control aerobic bio-reactor processes  
NWP351B Monitor, operate and control activated sludge processes  
NWP353B Monitor, operate and control anaerobic bio-reactor processes  
NWP355B Monitor, operate and control membrane filtration processes  
NWP359B Monitor, operate and control nutrient removal processes  
NWP363B Monitor performance and control maintenance of treatment plant assets



# Simmonds & Bristow currently offer the following competency units

## Certificate II - NWP20107

### CORE UNITS

- NWP201B Follow defined OHS procedures and regulatory requirements
- NWP202B Apply environmental and licensing procedures
- NWP203B Plan and organise personal work activities

### ELECTIVES UNITS (Eight elective units must be completed)

- NWP207A Work effectively in the water industry
- NWP209B Use maps, plans, drawings and specifications
- NWP210B Perform basic water quality tests
- NWP211B Use computerised systems
- NWP213B Monitor and operate irrigation and domestic delivery systems
- NWP215B Install and replace basic volumetric metering equipment
- NWP216B Install basic metering equipment and flow control devices for irrigation systems
- NWP218B Perform and record sampling
- NWP220B Collect and control drainage run-off
- NWP226B Prepare and restore work site
- NWP227B Control vegetation on a site
- NWP229B Repair minor structures
- NWP230B Maintain and repair irrigation channels and drains
- NWP231B Maintain and repair drainage assets
- NWP232B Operate water reticulation and distribution system
- NWP233B Construct and install water distribution assets
- NWP234B Locate, identify and protect utility services
- NWP239B Identify and apply water entitlements and delivery processes
- NWP240B Inspect and report catchment and surrounding areas
- NWP241B Inspect and maintain basic dams and water storages
- NWP242B Monitor and report water extraction
- NWP243B Operate bore fields and groundwater source systems
- NWP244B Maintain and repair bulkwater assets
- NWP245B Maintain tanks and water storage assets
- NWP246B Inspect and maintain public facilities
- NWP250B Construct and install wastewater pipelines
- NWP251B Construct open earthen channels or drains
- NWP252B Construct and install irrigation delivery and stormwater drainage assets
- NWP253B Install and repair water services
- NWP254B Repair or insert water distribution assets
- NWP255B Maintain and repair wastewater collection assets
- NWP256B Monitor and report water distribution systems
- NWP257B Maintain and repair wastewater collection systems
- NWP258B Monitor and operate bulkwater transfer systems
- NWP259B Operate, monitor and maintain pump stations
- NWP260A Monitor and report water treatment processes
- NWP261A Operate and maintain water treatment plant and equipment
- NWP262A Monitor and report wastewater treatment processes
- NWP263A Operate and maintain wastewater treatment plant and equipment
- NWP264B Monitor, operate and report wastewater pre-treatment processes
- NWP268B Monitor, operate and report chlorine disinfection systems
- NWP270B Monitor, operate and report basic anaerobic processes
- NWP271B Monitor, operate and report sedimentation processes
- NWP272B Monitor, operate and report wastewater lagoon processes

## Certificate III – NWP30107

### CORE UNITS

- NWP301B Implement, monitor and coordinate environmental procedures
- BSBCM302A Organise personal work priorities and development
- BSB0HS303A Contribute to OHS hazard identification and risk assessment

### ELECTIVES UNITS (Eight elective units must be completed)

- NWP300B Provide and promote customer service
- NWP305B Monitor and conduct minor maintenance of complex flow-control and metering devices
- NWP310B Monitor and operate water distribution systems
- NWP311B Monitor and operate wastewater collection and transfer systems
- NWP317B Control water quality in distribution systems
- NWP320B Monitor and implement dam maintenance
- NWP321B Inspect and operate groundwater regulation
- NWP322B Inspect and operate surface water systems
- NWP323B Monitor and coordinate catchment operations
- NWP324B Inspect and report river regulation operations
- NWP325B Conduct and report on dam safety inspection and basic monitoring
- NWP330B Establish positions of underground utilities using locating devices
- NWP331B Inspect conduit and report on condition and features
- NWP332B Monitor, operate and control drainage operations
- NWP333B Monitor and control rural water distribution operations
- NWP334B Monitor and control maintenance of water distribution assets
- NWP335B Monitor and control maintenance of wastewater collection and transfer assets
- NWP345B Monitor, operate and control water treatment processes
- NWP346B Monitor, operate and control wastewater treatment processes
- NWP347B Monitor, operate and control coagulation and flocculation processes
- NWP348B Monitor, operate and control sedimentation and clarification processes
- NWP350B Monitor, operate and control aerobic bioreactor processes
- NWP351B Monitor, operate and control activated sludge processes
- NWP353B Monitor, operate and control anaerobic bioreactor processes
- NWP354B Monitor, operate and control granular media filtration processes
- NWP355B Monitor, operate and control membrane filtration processes
- NWP356B Monitor, operate and control ion exchange processes
- NWP357B Monitor, operate and control reverse osmosis and nano filtration processes
- NWP359B Monitor, operate and control nutrient removal processes
- NWP363B Monitor performance and control maintenance of treatment plant assets



For information in regards to Legislation, Regulations and Delivery, see our Student Orientation Booklet which can be found on our website: [www.simmondsbristow.com.au](http://www.simmondsbristow.com.au)



# Simmonds & Bristow

Established 1965 ACN 010 252 418 Pty Ltd

WATER AND WASTE MANAGEMENT SOLUTIONS FOR • MINING • HOSPITALITY • COMMUNITIES • DEVELOPMENT  
SIMMONDS & BRISTOW 40 Reginald Street Rocklea QLD 4106 | tel: (+61 7) 3710 9100 | freecall: 1800 620 690

# Simmonds & Bristow currently offer the following competency units (cont'd)

## Certificate IV – NWP40107

### CORE UNITS

LGACOM405B Implement and monitor the organisation's OHS policies, procedures and programs within the work group

NWP401B Coordinate and monitor the application of environmental plans and procedures

### ELECTIVE UNITS (Seven elective units must be completed)

- NWP410B Coordinate and monitor asset construction and maintenance
- NWP415B Coordinate and monitor surface water systems
- NWP416B Coordinate and monitor water storage catchment activities
- NWP417B Coordinate and monitor groundwater system usage
- NWP418B Coordinate and monitor bulk water system operations
- NWP419B Coordinate and monitor river system usage
- NWP425B Coordinate and monitor the operation of irrigation delivery systems
- NWP426B Coordinate and monitor the operation of potable water systems
- NWP427B Coordinate and monitor the operation of drainage systems
- NWP428B Coordinate and monitor the operation of wastewater collection systems
- NWP429B Coordinate, implement and report trade waste monitoring procedures
- NWP435B Coordinate and monitor the optimisation of water treatment processes
- NWP436B Coordinate and monitor the optimisation of wastewater treatment processes

## Diploma – NWP50107

### CORE UNITS

PSPS0HS501A Participate in the coordination and maintenance of a systematic approach to managing OHS

NWP505B Implement and monitor environmental management policies, plans, procedures and programs

### ELECTIVE UNITS (Five elective units must be completed)

- NWP512B Develop and review catchment management plan
- NWP513B Implement and manage catchment management plan
- NWP514B Develop and review groundwater management plan
- NWP515B Implement and manage groundwater management plan
- NWP516B Develop and review surface water management plan
- NWP517B Implement and manage surface water management plan
- NWP525B Implement and manage asset construction and maintenance
- NWP527B Conduct commissioning and post-commissioning activities
- NWP528B Develop and modify trade waste management policies and plans
- NWP529B Implement and manage trade waste management policies and plans
- NWP530B Develop and review irrigation system's management plan
- NWP531B Implement and manage the operation and maintenance of irrigation delivery systems
- NWP532B Develop and review potable water system management plan
- NWP533B Implement and manage potable water system management plan
- NWP534B Develop and review drainage system management plan
- NWP535B Implement and manage drainage system management plan
- NWP536B Develop and review wastewater collection management plan
- NWP537B Implement and manage wastewater collection management plan
- NWP545B Develop and review management plan for water treatment processes
- NWP546B Implement and manage management plan for water treatment processes
- NWP547B Develop and review monitoring program for wastewater treatment processes
- NWP548B Implement and manage monitoring program for wastewater treatment processes

## Vocational Graduate Certificate - NWP70107

### ELECTIVE UNITS (Four elective units must be completed)

- NWP701A Contribute to the development of a complex water organisation
- NWP702A Apply water industry legislation, codes and standards
- NWP703A Lead water planning processes
- NWP704A Lead a project development
- NWP705A Provide leadership in hydrometric network planning and water resource management
- NWP706A Review and evaluate water and wastewater sustainability objectives
- NWP707A Analyse and review water treatment plant technology



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