



# TTR Group Inc.

## Butterfly Valve & Actuator Seminar

### Training Agenda - KUTTR13-1hr

City \_\_\_\_\_

Date: \_\_\_\_\_

Training \_\_\_\_\_

Contact: \_\_\_\_\_

Location \_\_\_\_\_

C \_\_\_\_\_

email \_\_\_\_\_

Time: 1 hour

Agenda Pages: 2

Presenter: Bruce James

Agenda Days: TBC

Test: No

Code: E- Engineering / O- Operations E/O- Engineering & Operations

Products: AWWA butterfly Valves and AWWA Actuation  
 Markets: Municipal WTP, WWTP, In plant and Buried service  
 Scope: Features & Benefits / Applications & Installations / Creating Applicable Specifications

#### Note

A one day seminar on **Butterfly Valve & Actuators** is available that has been reviewed by the OWWCO and has obtained director approval from the MOE with .7 cue's applicable to the course. Please request the full outline from your presenter

**Audience That Will Benefit**  
**Operations / Maintenance / Engineering**

## 1 hour Agenda

### AWWA Butterfly Valves & Actuators

#### Product

#### Topic

<b>Butterfly Valves</b>	AWWA C504 Latest Revision Standard Guidelines 150 & 250lb	E
	AWWA Velocity Rating / Pressure Class and Actuator Selection	E
	AWWA C516-10 Standard 72 inch and larger	E
	Coatings and AWWA Butterfly Valves AWWA C550	E
	AWWA Available Manual of Practice	E
	M44 & M49 AWWA Standards of Practice	E/O
	Flow Direction & Torque Effects- Static, Dynamic & Shaft Orientation	EO
	AWWA Butterfly Valves vs. Industrial Butterfly Valves	E/O
	AWWA Butterfly Valves Typical Failures & Causes	O
	Reality of Seat Field Replacement and Adjustability	O



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#### Butterfly Valves

AWWA Butterfly Valves on Control	E/O
Proper Sizing of Control Valves	E/O
Specifying without limiting	E
Considerations for Specification Creation	E/O

#### Actuation

AWWA C542 Latest Revisions	E/O
Worm Gear vs. Travelling Nut/ AWWA C540 review	E/O
Actuation in Chambers & Buried Service - Requirements	E/O
Actuator Mounting Orientations and Sizing – Turn Down	E/O
Open Left & Open Right	O
Actuator Sizing & Specifications – Unidirectional & Bidirectional flow	E/O
Actuator Removal / Packing Retaining Safety Issues	O
Actuator & Valve Shaft Locking Devices & Options.	E/O

#### Presenter

Bruce James - Experience 34 + years / Inventor- 4 Valve Patents  
Valve Commissioning & Field Experience 25+ years  
Associations – AWWA / ISA/WEFTEC / CPSA / Road Authority  
AWWA C520 Standards Committee member

