

# Index

○ SUMMER | ○ 2019

Newsletter of the  
Commissioning Specialists Association

PROFICIENT PROFESSIONAL COMMISSIONING



In this edition of Index:

- Chairman's Say
- Gala Awards winners and finalists
- Annual General Meeting
- Jules' News and much more...

*This Edition of Index is sponsored by:*

## The 2019 CSA Awards

Held on 27th June 2019,  
Guoman Tower Bridge Hotel,  
St. Katharine's Way, London E1W 1LD



# Ashford



**MR. PETER DAVEY ACCEPTING  
THE CSA LIFETIME  
CONTRIBUTION AWARD 2019**

**AGM & GALA  
AWARDS 2019**  
FULL DETAILS AND PICTURES  
of Finalists and Winners  
on PAGES 5, 6, 7, & 8



**NEW MEMBERS** We would like to welcome the following new members to the Association.

**INDIVIDUALS:** Gerry Mallon, Miles Hill, Adam Green, Jake Brackenridge, Danny Lawless, Craig Knowles, Arthur Penaia, Keiron Paton, Jonathan Tomlinson-Low, Ahmed Mohammed Ali, Serdar Kahveci, Omar Hammoudeh, Saim Ryaz, Moataz Shaheen, Gabriel Lancu, Alexey Kalashnikov, Gerson Caole, Jan Erik Chua, Lijo Thomas, Paul Calabia, Manikandan Pandian, A.M. Ganesan, Marco Milano, Amin Ullah, Asjasuddin Mohammed, Thilanka Thilakarathne, William Bain.



# Jules' News

**W**ell everyone that was the best one yet! If you didn't come to the Gala Awards you missed out on a fantastic night, we had a record number of attendees and their feedback was fantastic. The Tower Bridge Hotel is a perfect

venue for such an event as this. Thank you for all the continued support from our sponsors and well done to all the winners and finalists – see full details on page 8.



Another reminder to all members – if you have not yet paid your CSA Annual membership for 2019 we will be contacting you soon and after that your membership will be lapsed. Also any other outstanding monies owed to the CSA we will also be chasing. Please always pay your invoices promptly!

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## GRADE 5 THESIS

**Congratulations also to the following for passing the Grade 5 Thesis.**

**SHAUN WILLIAMS**

## GRADE 4 EXAM RESULTS MAY 2019

**Well Done to those listed below who have recently passed the Grade 4 Technical & Theory Exam.**

Sam Bennett	Jack Doak	Mohamed Alaghawni
Ryan Francis	George Nelson	Ahmed Mohamed
James Morton	Chris Moran	Ahmed mmm Hassan
Chris Brown	David Alderton	Mostafa el Sayed
Danny Brockley	John Harrison	Allan Salas
Hany Hasanien	Ahmed Kamel	Ameir Salum
Mohamed Abdelbaky	Mohamed Aamer	Jefferon Suarez
	Mahmoud Ali Saeh	Ramy Maasrawy

The date of the next Grade 4 Exam is Saturday 5 October 2019 – please e-mail me if you want to put your name down for this exam.

## Distance Learning Courses A, B & C

**Well Done to those listed below who have recently passed the DLC tests.**

<b>DLC A</b>	Mohamed Rahman, Seamus Mooney, Albert Philpot, Joss Curtis, Reece Biggs, Reece Burbridge, Simon Marlow, Calum Magill, Paul McCafferty
<b>DLC B</b>	Robert McNeice, Gareth Ward
<b>DLC C</b>	David Livesey, Mark Percy

## LEE SMITH – NEW GCC CHAIRMAN 2019

Lee joined the CSA in 2012 worked through the DLCs, passed Grade 4 Exam and Grade 5 Thesis.

Lee joined Dutco Group 5 1/2 years ago in Dubai and his current job title is Testing and Commissioning Manager – DBB Contracting LLC.

Lee took the position as Vice Chair for the CSA GCC Chapter in Dubai in May 2019 helping to develop the regional strategy for the CSA in the Middle East. He also helps to review and approve the new CSA membership applications. Co-author the CSA regional commissioning specification for the GCC and Develop the marketing strategy.

We are very pleased to welcome Lee into the position as CSA GCC Chairman.





# Ashford Environmental Services Limited Investment in Training Award 2019

Ashford are proud to announce they have won the Investment in Training Award for their internal training and career development programme at the prestigious CSA Gala Dinner in London. Ashford were also finalists in three other categories; "Project of the Year", "Commissioning Management Award" and "Commissioning Provider of the Year".

Operating from their hub in the City of London, Ashford continues to consolidate their position as market leader in the commissioning and water treatment sector. Based at the Dartford Depot, their maintenance division Ashfordfm, continues to grow, providing tailored solutions to the facilities management industry. Other milestones in the last year include certification with Achilles, the leading supply chain management specialist; completion of the new Tottenham Hotspur Stadium, 100 Bishopsgate and the securing of another mega project, Battersea Power Station Phase 2.

Established in 1997, Ashford provides a full commissioning service from design audit, through construction inspection, supervision and commissioning management, to pre-commission cleaning, pre-commissioning, pre-test and balancing checks, commissioning and performance testing. Our aftercare service includes monitoring of water quality, legionella control, environmental, general maintenance, post occupancy evaluation and continuous commissioning.

If you want a fresh pro-active approach backed up by a wealth of experience and a management philosophy of continuous improvement in service and performance, then contact us now. One of our directors will be happy to meet with you to discuss how Ashford can enhance the service that you provide.

## Water Treatment

- Pre-commission cleaning design appraisal
- Management of filling, venting & pressure testing
- Automatic dosing equipment for filling & ongoing maintenance
- Inhibiting/biocide dosing of pressure test water
- Flushing to BSRIA BG29/2012
- MDP® low effluent cleaning
- Pre-commission cleaning of closed systems
- Bio-wash processes
- Microbiological & chemical analysis
- Site survey & risk assessment
- Chlorination/disinfection to BS6700 & HSE ACOP L8
- L8 compliance & survey
- Closed system water quality monitoring & maintenance
- Boiler & cooling tower maintenance/cleaning/refurbishment
- Cooling tower decommissioning
- Supply/maintenance of water softeners
- Supply of dosing pots, air/dirt separators, sample coolers
- Tank cleaning/replacement/refurbishment
- Hevasure remote monitoring/control of dosing plant
- Corrosion rigs & coupon racks

## Commissioning Services

- Commissionability appraisal
- Systems validation
- Commissioning advisory service
- Commissioning management & supervision
- Commissioning testing & balancing
- Commissioning documentation
- Pre-commissioning checks & fault finding
- Plant functional analysis
- Environmental monitoring
- Plant operation, plant inspection & testing (site or works)



Battersea Power Station Phase 2



Tottenham Hotspur Stadium



London Development Project

## General Services

- LEV compliance assessment
- Planning, procedures & specifications
- Installation co-ordination
- Quality assurance techniques
- Site surveys & construction supervision
- "Clerk of Works" function



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The Offices Mill Mead  
Staines-Up-on-Thames  
Middlesex TW18 4UQ

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Email : [services@ashford-group.co.uk](mailto:services@ashford-group.co.uk)  
Website : [www.ashford-group.com](http://www.ashford-group.com)

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10 Bow Lane, London  
EC4M 9AL  
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London Depot  
Unit 43, Butterly Avenue,  
Questor Estate, Dartford  
Kent, DA1 1JG.  
Tel: +44 (0) 20 7231 6800

# Ashford



# CSA Northern Sub-Committee

*Neil Burdess, Chairman of the CSA Northern sub-committee / Associate Head of Commissioning at Banyards reports on the vision of the newly developed committee which gives a voice for CSA members in the North of the UK.*



I have been a member of the CSA for 26 years, starting out as a trainee and working my way through the CSA grades which has paved my future in the commissioning world and helped me develop the skills required along the way to where I am now. Over the last few years I have been involved with the CSA Training committee but noticed that many of the Northern commissioning companies were not involved with the CSA. The opportunity arose to take the reins of heading up the CSA Northern committee, giving a voice to our Northern members and collaborating with the team on tasks which would have a positive impact on the CSA offerings, which will in turn build our future commissioning engineers and commissioning managers in the same way the CSA has done for me.

To date, the Northern committee has been supporting the CSA Training committee with some modern updated electrical questions for the current Grade 4 Commissioning Engineers exam and some new water treatment subjects.

Our main vision is to develop the CSA's Electrical offering to provide a path of development for Electrical engineers to gain a CSA commissioning accreditation allowing them to be recognised in the industry as Commissioning Managers.

This will involve understanding the required academic levels for the proposed grades, developing job descriptions and writing Grade 4 exams that are tailored for electrically biased commissioning managers.

The Northern CSA committee is currently built up of seven members from five different companies ranging from Hands on Commissioning engineers, Water Treatment engineers, Commissioning Managers and M&E Contractors. We meet quarterly in Manchester area and use collaborative working tools like Skype and Teams, which enables those further afield to participate.

If you are a Northern CSA member and feel that you can bring some expertise to the table and aid with forming a path for future commissioning engineers, please get in touch with the CSA office who will pass your details onto myself.





## The 2019 CSA Awards

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### **PETER DAVEY RECEIVES “LIFETIME CONTRIBUTION AWARD” AT THE CSA 2019 GALA AWARDS**

***This award is given to the individual who has made a significant and consistent contribution to the building services sector. The individual will have demonstrated a strong commitment to supporting the commissioning industry, by helping to raise awareness of the importance of the function. They will also have supported the CSA in its efforts to raise standards in training and performance for our industry.***



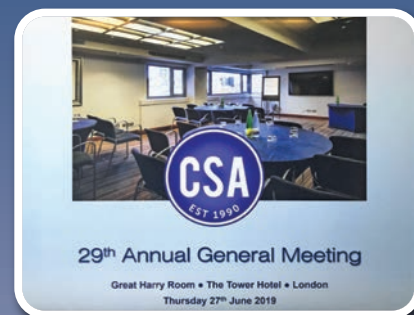
This year the award goes to one of the industry stalwarts who has truly made a significant contribution to all things commissioning. From his early days of “hands on” commissioning of air and water systems, progressing through controls and electrical systems, boiler, water chiller and on to BMS testing and validation.

His scope of work has seen him travel to most European countries, the USA, Middle East and Japan and not forgetting the 6 years he “survived” in Nigeria working for the Carrier Organisation.

Since the inception of the CSA he has been a major contributor to its Technical Memorandums and Guidance Notes and has been a member of the Technical Sub-Committee since 1995. He has also been a member of numerous CIBSE and BSRIA codes and guides committee’s and working parties. He is probably best known for his career advancements with Haden Young and Crown House Technologies.



# 29th CSA ANNUAL GENERAL MEETING



The 29th AGM was held at the Tower Bridge Hotel, St. Kathrine's Walk, London E1 before the Gala Awards evening. Once again we welcomed many of our members and we really appreciate the fantastic attendance of those who had travelled from far afield to be with us and support us during this AGM.

**Mark Todd**, CSA Chairman, reported that this was his first report as Chairman and that the Association goes from strength to strength. The last few years have seen a period of unprecedented growth with increased membership's applications from both corporates and individuals. Commissioning Management Training Course – Continues to grow and the Association is welcoming more and more Commissioning Management Companies and Consultancies to our ever expanding membership list. We have held courses at Horsham in February and April with another two courses planned for September this year. MT extended his thanks to Glen Hawkins who continues to deliver the course on our behalf. The Grade 7 – The Advanced Commissioning Management Course is in full development and is tailored to those commissioning managers who intend to or currently cover multi disciplines within their daily role. The course is due to be completed and ready to deliver in the first quarter of 2020. Special thanks to Tony Anderson for all the hard work and time he has spent on this.



**The GCC Chapter**, Middle East – Continues to grow and thank you to Tony Anderson and his team for all their continued hard work. Tony Anderson is now back in the UK and Lee Smith has been voted in as the new Chairman of the GCC with Craig Watt as Vice Chairman.



**Keith Barker** – Chairman of the Marketing Sub-Committee, reported the Marketing Sub Committee has continued its efforts to promote the Association during the last year, with a fair degree of success. We put together a series of articles on the What, Why, When and Who of commissioning. These are being published monthly in MBS magazine and we have already planned for further articles to be published later this year.

Continuing our efforts to get the CSA more widely accepted, we had a stand at the BSRIA Briefing and a table at the lunch. The CSA ladies made a sterling effort to distribute goodie bags and it was quite something to see dozens of people walking around with the CSA logo on bags slung over their shoulder. We are making plans to attend more of these types of event and to have a greater impact by being one of the presenters rather than part of the audience. To this end, we are putting together a package of material that can be edited to suit the theme of any particular forum.

Also this year we have reviewed the social media channels. This has resulted in a revamp to the website and a conscious decision to concentrate on LinkedIn and Twitter. Please ensure that when you share an interesting article or share one of our articles to use the correct hashtag. #CSAhorsham.

We are also planning a bold new move so as well as being one of the presenters at other organisations gatherings, we want the CSA to run its own forum to explore all facets of commissioning and its importance to the construction process. Andrew Castle of Touchwave Media has already carried out some initial research for us and we are formulating a plan to launch this on the 31st March 2020 and we will be looking to the wider CSA membership to not only support this but to make active contributions.

The committee has been quite bolstered this year by the presence of our Vice Chairman Roy Tyler and input from Joe Wu for which we are grateful

# 29th CSA AGM...

**Chris Davey** Chairman of the Technical Sub-Committee reported that they have managed to review and update all of the information within the current Technical Memorandums (TM's) and Guidance Notes (GN's) with one major exception TM1 Commissioning. Originally TM1 consisted of both Commissioning and Commissioning Management and we have now split these in to two distinct sections. TM1 which deals with "hands on" Commissioning is now updated and available on the web site but the Commissioning Management section which will become TM20 still has to be reviewed and updated and we are on track to have this complete by the end of 2019. We have also identified three new subject areas; TM21 Validation, TM22 Seasonal Commissioning and TM23 IST Testing. These are also progressing well with some in final draft stage and we aim to have these completed also by the end of 2019.



**Carlo Gambardella** Chairman of the Training Sub-Committee. There have been a few changes over the past 12 months with Paul Brown standing down as Sub Committee Chairman, Paul will continue to mark and produce the Grade 4 Exam Papers.

**Introduction to Commissioning Management 2 day training course** has been a huge success with 2 courses taken place this year with another 2 courses booked in September.

**Distance Learning Course Status** – A total of 139 courses have gone out since the last AGM.

**Grade 4 Examination** May and October 37 people took the technical paper – 30 passed, 7 failed. The next exam is set for 5th October 2019.

**Grade 5 Thesis** – There have been 4 passes since last June with 14 currently ongoing. We are adding and updating Grade 4 exam questions so they are more current to today's changing technology. We also intend to produce new updated DLC Modules to incorporate PICVs, DPCV's and heat interface units. Behind the Scenes, 2 new DLC modules are being finalised for introduction in 2019:

- DLC B – Introduction to Psychrometrics
- DLC C – Psychrometrics in detail.

**Neil Burdess**, Chairman of Northern Committee is to provide a voice for Northern CSA members who find it more difficult to attend the CSA office in Horsham, running meetings. This year already we have made some great progress on the exciting new challenge to develop the CSA's Electrical Commissioning managers grading and all aspects concerning the Electrical Commissioning Managers job descriptions and examinations. We have also been supporting the Training Sub Committee with updated electrical questions for the current Grade 4 exam and some water treatment subjects. The Northern Committee also meets four times a year and any northern members interested in joining should contact the CSA office or Neil Burdess – new members to the committee are always welcome.



**Julie Parker**, CSA Secretary informed the AGM that it is her 19th year as Company Secretary and we now have a record number of CSA members.. We have a new bespoke mobile friendly website so please take a little time to browse through and give us your feedback. We had a huge presence at the BSRIA Briefing last November and have booked an exhibition stand at the next one in November 2019. The Management Committee set the budget for 2019 and Annual reports were sent out a few weeks ago to all CSA members with a Nomination form for anyone who would be interested in joining one of our Committees. Articles for Index are always required and anyone who has any interesting commissioning news please let her know. Social Media has many followers which is increasing every week—make sure you follow us as we regularly post any updates regarding the CSA.



# WINNERS 2019

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Ashford BSRIA CSA Johnson Controls MBS MEDIA CONTROL Andrew Reid Hattersley



### **PRODUCT INNOVATION OF THE YEAR** **Commercial Water Testing Services** **MALDI-ToF ADEY**

– sponsored by Media Control



### **PROJECT OF THE YEAR** **Darlington STEM Project – NG Bailey** – sponsored by BSRIA Instrument Solutions

### **COMMISSIONING PROVIDER OF THE YEAR** **MEDIA CONTROL** – sponsored by MBS



### **COMMISSIONING** **MANAGEMENT AWARD** **MARK RAWLINGS – AESG** – sponsored by Andrew Reid



### **INVESTMENT IN TRAINING** **ASHFORD ENVIRONMENTAL SERVICES** – sponsored by Johnson Controls



### **STUDENT OF THE YEAR** **JOSHUA ALLEN** **BRIGGS & FORRESTER** – sponsored by Hattersley



### **ENGINEER OF THE YEAR** **JOE WU – RED ENGINEERING DESIGN** – sponsored by Ashford Environmental Services



# FINALISTS 2019



## The 2019 CSA Awards

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Ashford

BSRIA

CSA

Johnson Controls

MBS

MEDIA CONTROL

Andrew Reid

Hattersley

### PROJECT OF THE YEAR

ADEY: Commercial Water Testing Services MALDI-ToF  
ADEY: MagnaClean DRX  
Distech Controls: Allure UNITOUCH  
Evinox Energy: ModuSat® XR 'Smart' Heat Interface Units  
Ideal Commercial Boilers: Free Commissioning Service  
Johnson Controls: Verasys™  
Water Treatment Products: Closed System Corrosion Inhibitor Tablet

### COMMISSIONING MANAGEMENT AWARD

AESG: Mark Rawlings  
Ashford Environmental Services: Mat Embleton  
End Systems: Rob Cleworth  
Engineering Commissioning Services: Scott Whitmore  
NG Bailey: Craig Powell

### PRODUCT INNOVATION OF THE YEAR

ADEY: Commercial Water Testing Services MALDI-ToF  
ADEY: MagnaClean DRX  
Distech Controls: Allure UNITOUCH  
Evinox Energy: ModuSat® XR 'Smart' Heat Interface Units  
Ideal Commercial Boilers: Free Commissioning Service  
Johnson Controls: Verasys™  
Water Treatment Products: Closed System Corrosion Inhibitor Tablet

### ENGINEER OF THE YEAR

Martin Williamson: AESG  
Danny Brockley: End Systems  
Robert Eadie: HKA Global  
Joe Wu: RED Engineering Design

### COMMISSIONING PROVIDER OF THE YEAR

AESG  
Ashford Environmental Services Ltd  
Banyards  
End Systems  
Engineering Commissioning Services  
Media Control

### INVESTMENT IN TRAINING AWARD

Ashford Environmental Services Ltd  
Banyards  
End Systems: Kay Corlett

### STUDENT OF THE YEAR

Joshua Allen: Briggs & Forrester Engineering Services  
Lewis Camilleri: End Systems  
Danni Chandler: JC Commissioning  
Paul Floody: King Environmental Services  
Mazen Hudhud: T&C Technology Engineering Services LLC



CSA Guest Tables



SPECIAL GUEST  
DONALD TRUMP



# Chairman's Say



**GALA AWARDS 2019 —  
CHAIRMAN'S CHOSEN  
CHARITY: BIPOLAR UK.**

**TOTAL RAISED ON THE  
NIGHT FROM "HEADS &  
TAILS" was £2,017.**

THE WINNER OF £100 AND  
A BOTTLE OF BUBBLY WAS  
KAREN FLETCHER, OF MBS.  
Karen kindly donated  
her prize money back to  
the Charity.



I could start this with facts and figures, I could do an interview with a person who has Bipolar disorder, I could write a dry academic article on the condition but I won't because you can read all of that already. There are plenty of scholarly articles online and accounts from the ones who have this diagnosis but there isn't much out there about those of us who live, work, and socialise with the Bipolar community. This is partly due to the fact they're a minority in society and the fact that many Bipolar types aren't necessarily as forthcoming as others; my wife, Rachael, for example is incredibly vocal about her experiences of having this condition and being a neuro-atypical. She has a small group of Bipolar friends who are similarly so and a greater group who aren't mental health warriors at all. I know many of these people and love and adore some of them, others, I don't really see – people are people after all and you're not going to automatically be best mates with everyone you meet – and that's part of it as well. There's a societal imperative to be seen as accepting of all but in reality there's always someone you don't get on with in every group and the Bipolar community is no exception, the important thing is that we do not make the choice to hang out with someone purely because we are afraid of their psychological diagnosis without understanding it. The media frequently portrays Bipolar as some kind of horror show scenario. Bipolar Disorder is largely misunderstood as a result of poorly drawn characters in fiction, i.e. films and television shows. It's a severe mental health issue much as Schizophrenia is and like this companion psychological disorder it is seen as dangerous, something to be feared and distrusted. This can be the case, sure, a Bipolar person can be violent or anti-social but then so can someone who is completely neuro-typical. In the main, Bipolar people are exactly like the neuro-typical community, their moods, behaviours, psychological model, etc, definitely differs but if their condition is managed well, they're perfectly average people who are perfectly as capable as anyone else.

The essentials of Bipolar Disorder are extremes of mood, reactions, sensitivity to situations and the emotions of themselves and those they are near, a lack of ability to control their feelings, depressive episodes and hypo-manic or manic episodes. There are two types of Bipolar Disorder: Bipolar I and Bipolar II, with a much less severe form called cyclothymia. Bipolar I is largely evident when someone has long periods of mania and depression. Bipolar II is when someone has long periods of depression and hypo-mania or mania. Cyclothymia is a much milder kind of Bipolar II. The differential diagnostic criteria are quite close in that BiP I and BiP II can have a very fine line between them; the manic and depressive episodes can be very rapid cycling and even mixed manic+depressive at the same time episodes. Mania is basically defined as an elevated mood. The degree to which it is elevated varies greatly, it can range from hypo-mania where someone is very chatty, 'up', sleeps less, is more excitable than normal, to full on mania where they engage in risky behaviours like hypersexuality, taking dangerous risks with their safety, spending vast amounts of money, talking nonsense because they're experiencing racing thoughts and flights of fantasy. This can sometimes develop into psychoses where they have major delusions of grandeur, hear voices, have visual hallucinations or other psychotic symptoms. This is rare and reserved for the most severe cases, though.

Sure, it might be weird to be alongside someone who is in the midst of an episode but there's no need to be scared. If they're struggling with something, lend a friendly shoulder to cry on, be there to just listen. The last thing you can do is 'fix' them. Don't even bother trying, believe me, there's no point and it'll only frustrate you both. They don't want to be in this state as much as you don't want them to be but they can literally not exercise any control over it. The phrase Rachael uses most often is, 'This Too Shall Pass'. And this too shall pass, it may be a nightmare while it does, but by the very nature of Bipolar Disorder, pass it does. If their behaviour is very concerning to you in that they may harm themselves or others, 999 is always your best option, however, this is quite rare to have to take such a drastic step. Generally speaking, rest, meds, and therapy are the things that enable a Bipolar person who is suffering a bad episode to get back on track. Be calm, be supportive, and be kind. Time is a massive factor here, and while companies find sick leave annoying or deprecatory to their business requirements, it's essential that mental health issues are taken just as seriously as physical ones; after all, it would be shocking to find out someone was penalised or sacked for having cancer, wouldn't it? It's similar with mental health challenges. A person in full remission from cancer can come back to work and have as productive a career as they previously had, so too can someone with Bipolar Disorder after a period of mania or depression.

There are dozens of mental health organisations in the UK and indeed worldwide. Bipolar UK is a fantastic charity who signpost and refer to other help centres, give really valuable information for people with Bipolar and their families, friends, work colleagues etc, and raise awareness and funds for the Bipolar community. MIND also have info and signposting to help for all mental health issues including Bipolar Disorder. The NHS website has a concise description of the condition and how to recognise and handle it. With so much information out there it's easier than ever to educate yourself about this particular psychological diagnosis, so go for it, you never know what a huge difference you may make to someone around you.



## CSA INTRODUCTION TO COMMISSIONING MANAGEMENT 2-DAY COURSE

This 2-day course is split into 8 sessions, providing exercises to assess and guide Delegates through specific activities. Each session contains:

- the source material
- detailed guidance through the process
- an interactive session "exercise" to end each session

On successful completion of all 8 sessions each delegate will be awarded a CSA Introduction to Commissioning Management certificate and CSA members who are a Grade 5 and have the relevant path of development experience would then be able to apply for their Grade 6.

### An Overview of the Training Course

#### Day One

- Project delivery in the 21st Century built environment
- Commissioning: what is it and why it is important?
- The commissioning process for a construction project
- Management of the Commissioning process
- The commissioning management specialist
- Getting started on the project
  - Forming a commissioning team
  - Producing a commissioning plan
  - Commissioning team administration
- Commissioning-focused design reviews
- Programming commissioning activities

#### Day Two

- Factory acceptance tests
- Preparation for site-based commissioning works
  - Pre-start commissioning workshops
  - Production of pre-start documentation
- Monitoring and controlling commissioning works on site
  - Tracking Commissioning activities
  - Verifying and documenting commissioning works
- Project handover and close-out
  - Producing a final project commissioning report
  - Initial occupation support

**Course Location:** In keeping with its other training programmes, this course will be conducted at the CSA offices in Horsham, West Sussex.

**Course Dates:** (next 2-day course date 2019 – 17 & 18 September 2019 – Please note that we require 4 weeks cancellation notice or you will be charged)

**Course Pricing:** This unique 2-day course is priced at £600.00 + VAT for CSA Members and £700.00 +VAT for non-members.

For further information and to express interest in attending this important training course, please contact Julie Parker or Joanne Rowe at the CSA on +44 (0)1403 754 133 or by email at [office@csa.org.uk](mailto:office@csa.org.uk).

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- Legionella risk assessment
- Cooling tower maintenance
- Closed system monitoring
- UKAS accredited laboratory services
- Water treatment plant services
- Water treatment consumables
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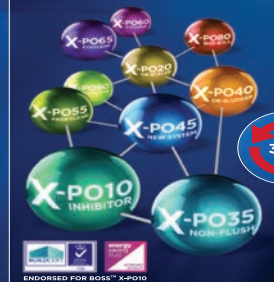
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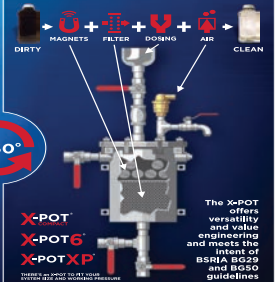
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