CONTINUING PROFESSIONAL DEVELOPMENT



CPD Guide with Examples

How to make the most of your Continuing Professional Development

The Institute of Measurement and Control



What is CPD?

Continuing Professional Development (CPD) describes the learning activities professionals engage in to develop and enhance their knowledge, skills, and competence.

Benefits of CPD

CPD can help you to:

- Achieve your goals efficiently
- Maintain and enhance your knowledge and skills
- Keep up with changing technology and trends
- Get recognition
- Give you a competitive edge against others
- Stay in the job market
- Develop leadership skills and help influence others
- Provide evidence of competence when it's needed
- Gain access to experts in the field
- Demonstrate commitment to your profession

CPD culture can help employers to:

- Demonstrate a supportive and proactive culture for staff development
- Motivate staff in self-development against global frameworks
- Maintain value of previous training and reduce risk exposure
- Demonstrate professional team standing
- Enhance own organisation core competences
- Recognise those who go the extra mile
- Demonstrate a commitment to the profession

CPD Activity Examples

CPD can take a variety of different forms and it is expected that the CPD focus for everyone will change as their career progresses. While the examples below are not exhaustive, CPD may include a combination of the following:

Formal Learning

- Undertaking academic study
- Attending a technical specialist course
- Attending networking events, conferences, technical visits, lectures, seminars etc.
- Leading technical meetings and events
- Undertaking a technical qualification
- Attending a leadership/management course

Peer and Professional

Interaction

- Supporting the learning and development of others by mentoring
- Coaching your staff at work by sharing expertise and knowledge
- Demonstrating technical application
- Discussing ethical issues with colleagues
- Any community activities contributing to society

Developing wider business skills

- Having regulatory understanding such as business regulations, charity law
- Exercising business processes in risk, audit, financial planning, value management, problem solving etc.
- Any activities where you can develop or demonstrate your interpersonal skills such as public speaking

Informal Learning

- On-the-job training
- Taking on responsibility for a new budget
- Reading technical journals and books to keep up to date
- Researching a technical subject to increase your knowledge
- Undertaking a placement at work in a different technical area to increase the breadth of technical skills
- Any activities increasing your technical knowledge

Contributions to the Profession

- Writing/publishing technical articles and papers
- Reviewing papers for technical papers
- Supporting course developments for educational establishments

Volunteering

- Professional body volunteering roles such as professional registration, assessor, *interviewer, committee roles, local* network roles, etc.
- Providing consultancy or advisory roles to charities and other organisations.
- Other volunteering that supports the development of soft skills, financial, leadership skills.

CPD Learning Process

There is no prescriptive format for your CPD record, but it must clearly include:

01	Plan your objectives and identify the CPD activities that will help your learning and development
02	Do the CPD activities and list the planned activities
02	undertaken and include any other activities that you've completed in response to opportunities that might have arisen evaluation of your CPD activities
03	Record your CPD using "MyCareerPath" or via your format of choice
04	Reflect on what you've learnt and achieved through your CPD activities

- **05 Evaluate** your CPD activities against your objectives
- 06

Review your learning and development plan regularly and how your CPD activities fit with your future needs



Example CPD Records

To help to create your own unique CPD record, below are three CPD records which Institute members have kindly agreed that we can share with you.

Example 1

Years Plan and Objectives									
E&I Engineer									
Completion Target Date									
Activity	Туре	Start Date	Date	31-Mar-22					
Covid Risk Assessment Objective 01-Apr-21 NA									
Description: To ensure that the Risk Assessment document is kept updated and ensure that									
mitigation measures for the legal restrictions (at that given time) are in place for Covid-19									
Objective: Update Risk Assessments to reflect the legal restrictions of Covid-19 and raise									
awareness and application of measured designed to increase the well-being of site-based									
working and health. Record and Reflect: Our risk assessment document was always being changed to reflect the									
				•					
legal restrictions for Covid-									
distancing and good hygier									
how to mitigate these. The	se were reacti	ive measures i	or working du	ring Covid-19.					
Review: Updating risk asse	ssment docun	nents for Covid	d-19 was good	practice. We also					
recognised that some work									
pandemic and that we may	continue the	se practices th	ereafter.						
			Completion	Target Date					
Activity	Туре	Start Date	Date	31-Mar-22					
New Clients	Objective	01-Apr-21	NA						
Description: All Lead Engineers were given an objective to find at least one new client to bring									
additional work into the bu									
	Objective: The objective was to bring different revenue streams into the business, with the								
intention of developing a working relationship with new clients.									
Record and Reflect: This provide extremely difficult but I was able to arrange a secondment									
with one of my previous er			•						
Level resources and techni									
beneficial for me and my team, as the two engineers I took with me previously had no LNG									
handling experience. As a result, additional training was offered and the team members were supported in their growth and development and broadened their knowledge base									
supported in their growth and development and broadened their knowledge base. Review: This work has brought a new client into the business, going forward we are looking to									
	-			-					
develop the relationship with the intention of bringing multi-discipline work back into our office instead of just providing the resource. These discussions have been ongoing and have been									
agreed with the client that on new projects if any work is to be outsourced that we will get the									
first refusal.									
Completion Target Date									
Activity	Туре	Start Date	Date	31-Mar-22					
Diversification	Objective	01-Apr-21	NA						
Description: All Lead Engin	eers were give	en an objective	e to diversify o	ur client base into					
different sectors.									
Objective: The objective w	as to diversify	our client bas	e away from tł	ne standard Oil & Gas					
/Renewable and Nuclear Ir	ndustries.								
Record and Reflect: We ha	ve had some s	success with p	artnering with	another design house					
which specialises in water		•	-						
move away from our norm									
water industry. As expecte	d the Renewal	ble and Nuclea	ar industry has	been much harder to get					

into, even with our company having some small project success in both areas in the past.

Review: With the move into the water industry and reviewing the tender documentation we have received. I feel that there is additional learning I need to carry out for different Analyser types which I have not used in the past. This will form part of my 2022/2023 development plan.

			Completion	Target Date
Activity	Туре	Start Date	Date	31-Mar-22
Develop Junior Team				
Members	Objective	01-Apr-21	NA	

Description: One-to-one mentoring to develop the junior personnel within my team **Objective:** The objective was to provide one-to-one support and develop and access the needs of junior personnel within my team. I will also identify any additional training and experience needed to assist their development.

Record and Reflect: Through one-to-one mentoring and peer checking their work output, I was able to help the engineers to work more efficiently and not to make the same mistakes that I made early in my career.

Review: I have been mentoring a member of my team and we have devised a developmental plan together. He is currently working at Engineer Level however meets all the criteria to move to Senior Engineer Level. I also encouraged his application for CEng and has future aspirations of applying this year. Another mentee is a junior member of the team and is looking to move from a graduate position into an Engineer position. I have been able to give increasing responsibility to run his own small projects with less input from myself and the section Senior Electrical Engineer. Whilst we review the training requirements to attain his CEng in the future and what route is best in terms of work experience or to continue his learning with a Master's degree.

			Completion	Target Date
Activity	Туре	Start Date	Date	31-Mar-22
Company Standard				
Documents	Planned	06-Jan-22	18-Feb-22	

Description: Yearly update of the Electrical & Instrument sections company standard documents.

Objective: To ensure that Electrical & Instrument sections are updated as well as other regulations such as GDPR

Record and Reflect: Yearly update of the sections company standard documents, to bring them in line with current codes and standards. Then carry out a review with the rest of the team to ensure they understand any changes to the standards. I also attended our annual learning course on GDPR so that my knowledge is refreshed and ensures that I fully understand the regulation and any changes that are made to the regulation. Having been on this course, I am able to amend company standard documents easily as well as impart my knowledge to members of my team about data protection and ensure that our processes and procedures are compliant.

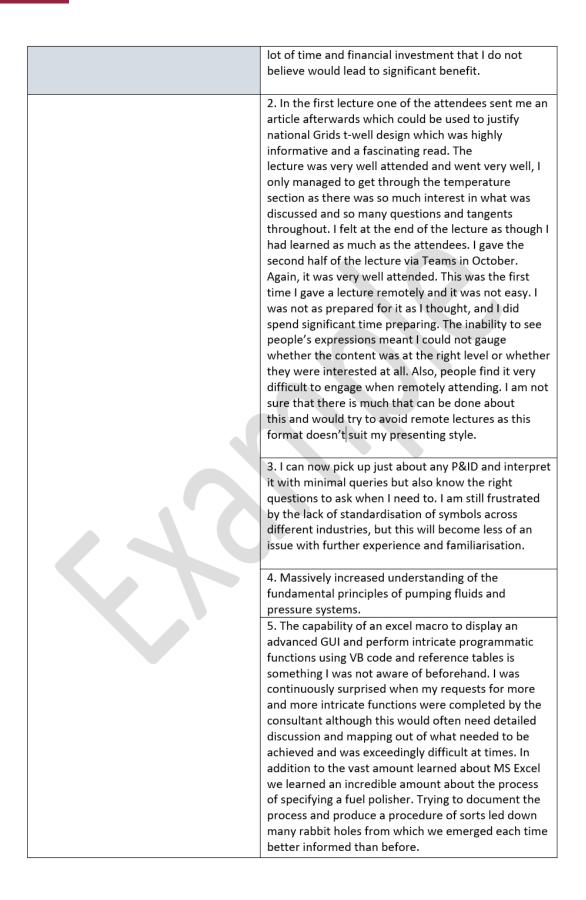
Review: The intention is to also review and update these standards for the new sectors we are looking to move the company into, as additional codes and standards need to be added. This will form part of my 2022/2023 development plan to update the company's standard documents and to carry out the necessary reading and training needed for this update. I was also able to apply my knowledge having been on the annual GDPR course. I was able to conduct a full audit of our standard documents and have identified where would improve in the future such as taking a course on cyber essentials.

Example 2

PROJECT DESIGN ENGINEER	
(A) - Planned objectives/overall target	1. Find a way to obtain a formal recognition of project management skills and gain a better understanding of project management theory.
	2. Develop my presentation skills. I have been invited and agreed to perform the lecture "The Blunt End of Instrumentation" in both the Cumbria section of the InstMC and the West of Scotland Section.
	3. Increase P&ID knowledge, familiarity and understanding (Try ISO 1219 maybe)
	4. Increase understanding of pumps and fluid systems regard static pressure and pressure drops with an ultimate objective of producing a method of specifying pumps for diesel cleaning and polishing applications
	5. Produce a Fuel Polisher Selector program to aid sales and non-technical staff in specifying fuel Polishers
	6. Figure out the need for expansion vessels on sealed piping systems
	7. After leaving my employment, I began actively looking for remote lectures and presentations relating to future technologies.
(B) - CPD activities that are to be undertaken to achieve the objectives/target	1. Complete XXX course to get QCF Level 5 in Project Management.
	2. I gave the first half of the lecture at XXX University in January. I gave the second half of the lecture via Teams later in October.
	3. This standard exists in 3 parts which I have not obtained via my employer due to funding constraints. Instead, I found ways of getting skilled up on the cheap using whatever resources are available to me.
	4. This was achieved mainly by learning on the job and grilling pump and filter suppliers, XXX from XXX was incredibly helpful, as well as YouTube videos were also surprisingly helpful for example Practical Engineering.

	5. Worked closely with the Engineering Manager,
	Business Development manager and an external
	consultant to design an Excel spreadsheet and
	associated macro that would guide anyone in sales
	with basic training through the process of specifying a
	fixed or mobile fuel polisher within certain limits.
	6. Perform calculations and increase understanding of
	the problem and solution.
	7. Find and attend courses, see list in (C)
(C) - CPD activities that have been completed	1. Completed all modules and lectures of the course
	2. Completed the presentation successfully on both
	dates
	3. By speaking with several experienced engineers
	and my peers in XXX, in some detail across several
	projects I believe I have developed my knowledge of
	P&IDs to an extent that I am happy with for now. If
	my future career path means further knowledge
	would be beneficial then I will resurrect this thread.
	4. Wrote an advantage/disadvantage table comparing
	Gear, Vane & Centrifugal Pumps. Including diaphragm
	Cear, valle & centinugar rumps, meldung diaphragin
	pumps was suggested however their use is so limited
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 6. Increased understanding of thermal expansion a how to access and address risk. 7. Impact of uncertainty on flow measurement: Gr Presentation, really advanced my understanding o relevant terminology and why certain things are d as well as how to go about reducing uncertainty, h been through all this in university but always good refresh my knowledge. Ammonia in future propuls and the alternatives was also fascinating albeit the presenters bias was clear throughout. In general, t continuing lock down made it easy to find an abundance of lectures that interested me and help me continue learning at no cost while between job 1 - How this relates to the planned objectives 2. Having to present to a large group of people giv great imperative to get organised. Presenting for t InstMC at least at live lectures is a great way to improve presentation skills, learn a lot and networ 3. The combination of on-the-job training and questioning knowledgeable people at every opportunity has allowed me to successfully completive. 	eat f one ad to ion he oed os. d
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questioning knowledgeable people at every opportunity has allowed me to successfully comple	k.
opportunity has allowed me to successfully comple	
the objective.	ete
4. The planned objective was achieved through	
completion of the planned activities.	
5. Everything learned about Excel and fuel polisher	
specification related to the planned objective. It re	
is a pity we did not get to see this one through to t	he
end however the process itself was a great	
experience and something I will take with me to g	eat
benefit in my future career.	
6. I am still not happy with my understanding of lic	
thermal expansion in sealed piping systems and w	II
carry this thread into 2021. Although this is a	
common problem which for example is accounted	for
in many simple hydraulic systems using expansion	
vessels, I have not yet been able to find someone	
who can explain the theory and calculation metho	JS
to my satisfaction.	
7. The lectures and presentations attended were v	ery
insightful and helped bring me up to date	
with modern technologies especially in relation	
instrumentation and measurement as well as	
future energy sources and probably above all the	
ways in which the world is going to reduce its carbon output in the coming years and decades	

Objectives	Development Activities	Learnings / Achievements	Evaluation	Review / Reflection
Improve ICSS skills	Build on my previous experiences in ICSS by pursuing a suitable job opportunity within the company.	Joined the XXX project as 'ICSS Lead Engineer'. Developed the plan for the delivery of 'Build Packs' to the Automation Contractor to support overall project schedule. Successfully tested and delivered ICSS hardware to site. This job has allowed me to learn more about ICSS planning, scheduling and ICSS hardware.	Since joining the project, all targeted milestones have been achieved. This role has allowed me to apply my learnings from when I did a similar role on the XXX project and improve my ICSS skills from there.	The project is ongoing. Software design, configuration, testing, and shipment to be completed in 2021. Completing this next year will allow for further learning and development of my ICSS skills, specifically in the process control and automation side.
Increase knowledge of Functional Safety (IEC 61511)	Apply what was learned last year from the Functional Safety course and exam (CFSP) and utilise it in a real project application. Pursue a role within the company to apply functional safety skills.	Developed the project for an offshore platform project (XXX Project) which deepened my understanding of IEC 61511, clause 10 'SIS safety requirements specification'.	Objective achieved. SRS was developed, accepted by the client, and issued for construction on the project. Gained confidence in my abilities as a functional safety professional.	This objective built on the training done in 2019. To continue developing in this area, further opportunities to be pursued in 2021+ to continue to apply my skills and knowledge and gain more experience in functional safety.
Develop knowledge of cyber security (IEC 62443)	Gain a basic understanding of cyber security in industrial automated control systems (IACS) by attending training, presentation or other.	Attended an internal L&L session on IACS security. Learned about the IEC 62443 suite of standards, what they include and where they fit into the project lifecycle.	Objective achieved. I feel I now have a basic understanding of the IEC 62443 structure and contents.	This objective is just the beginning of a journey learning about an increasingly more important area of our discipline. Aim to build on this in 2021+ by doing courses or work roles that include cyber security scope.

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Build on the	Completed my role as	Successfully led the	Proud of
previous year's job	Instrument, Controls		completing this
roles and continue	&Telecoms Lead		achievement
towork in	Engineer on the Tyvek	the project and handing	given theCOVID
leadership positions	Line 8Project. In	over~900	situation which
within the	completing this role, I	engineering/design	prevented face-
company.	learned skills in co-	documents to	to-face
	ordinating a remote	constructionand closing	engagement. Plan
	team across the world	out 26 I, C&T purchase	to continue C&I
	(COVIDprevented face-	orders. Doing thisjob	leadership roles
	to-face engagements)	improved my leadership	into 2021+.
	and facilitating	and team co-	
	workshops with the		
		added benefit in gaining	
		skills inmodern	
	geographical locations	communication tools	
	USA).	SharePoint etc.	
Following on from	Enrolled in the XXX	Due to COVID, the course	Objective to be
-			carried over to
·			2021.
	programme.		
in 2018, enrol in a			
more advanced			
project			
management			
course.			
Continue	Mentored one of the	I was able to share my	Being a mentor
mentoring.	graduates in 2020. This	experience/advice with	was a fulfilling and
	gave me the		rewarding
			opportunity. The
		best to share	relationship was
	communicate	experiences, provide	beneficial to my
	both technical and	guidance, and inspire a	mentee but also
	general career	young engineer. In the	to me. I would like
	general career experience to a young	young engineer. In the feedback provided, my	to continue to do
	general career	young engineer. In the	
	previous year's job roles and continue towork in leadership positions within the company. Following on from the 'Operational Project Management Course' completed in 2018, enrol in a more advanced project management course. Continue	previous year's job roles and continue towork in leadership positions within the company.Instrument, Controls & Telecoms Lead Engineer on the Tyvek Line & Project. In completing this role, I learned skills in co- ordinating a remote team across the world (COVIDprevented face- to-face engagements) and facilitating workshops with the Client which included attendeesfrom 4 geographical locations (UK, Chennai,Luxembourg, USA).Following on from the 'Operational ProjectEnrolled in the XXX University 'Improving ProjectFollowing on from the 'Operational projectEnrolled in the XXX University 'Improving ProjectManagement course.Performance' programme.Continue mentoring.Mentored one of the graduates in 2020. This gave me the opportunity to learn how best to	previous year's job roles and continue towork in leadership positions within the company.Instrument, Controls & Telecoms Lead Engineer on the Tyvek Line & Broject. In completing this role, I learned skills in co- ordinating a remote team across the world (COVIDprevented face- to-face engagements) and facilitating workshops with the Client which included attendeesfrom 4 geographical locations (UK, Chennai, Luxembourg, USA).closeout of the I, C& Tengineering phase of the project and handing over"900 engineering/design documents to constructionand closing out 26 I, C&T purchase orders. Doing thisjob improved my leadership and team co- ordinationskills. Also, the added benefit in gaining skills inmodern communication tools such as MS Teams,WebEx, SharePoint etc.Following on from the 'Operational Project Management course.Enrolled in the XXX University 'Improving Project Project Project Mentored one of the graduates in 2020. This gave me the opportunity to learn how best toI was able to share my experience/advice with my mentee which in turn helped me learn how best to share



- For further information or additional help with CPD, view our <u>Continuing Professional Development FAQs</u>.
- You can learn more about CPD in our <u>Continuing Professional</u> <u>Development Guidelines</u> and <u>Policy Statement</u>.
- Engineering Council's guide to <u>CPD</u>.