

# A Continuing Professional Development Advanced Pharmacy Practice Experience to Develop Practice-Ready Graduates: Three Institutions' Experiences

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## Published Examples of Continuing Professional Development (CPD) in Pharmacy Education and Practice

CPD Example	Setting	Outcome	Reference
A longitudinal CPD course	Didactic education	Students reported improvement in oral, written and interprofessional communication, leadership, and time management as a result of the self-directed CPD model	Unni E, Le MT, Whittaker A. Implementation of a continuing professional development course in a longitudinal didactic curriculum for pharmacy students. <i>Am J Pharm Educ.</i> 2019;83(8):7013. doi: 10.5688/ajpe7013.
Incorporated as an element of pharmacotherapy coursework	Didactic education	Student quiz scores and quality of written SMART goals improved as a result of the CPD exercise	Dugan BD, Hughes PJ, Wright S. Use of a CPD Plan template with SMART goals as part of a diabetes pharmacotherapy module. <i>Innov Pharm.</i> 2020;11(2). doi: <a href="https://doi.org/10.24926/iip.v11i2.1990">https://doi.org/10.24926/iip.v11i2.1990</a> .
A longitudinal CPD activity for first-year pharmacy students	Didactic education	The required CPD activity was feasible and valuable to students' developing life-long learning skills; student and faculty training on the CPD approach is key for successful implementation	O'Brocta R, Abu-Baker A, Budukh P, Gandhi M, Lavigne J, Birnie C. A continuous professional development process for first-year pharmacy students. <i>Am J Pharm Educ.</i> 2012;76(2):29. doi: 10.5688/ajpe76229.
A portfolio element within a pharmaceuticals course	Didactic education	Students reported CPD portfolio development as effective for self-directed learning and reflection	Schneider J, O'Hara K, Munro I. Using continuing professional development with portfolio in a pharmaceuticals course. <i>Pharmacy.</i> 2016;4(4):36. doi:10.3390/pharmacy4040036
Incorporated as an element of an IPPE experience	Experiential education	IPPE students implemented the CPD approach to write SMART learning objectives and complete learning activity worksheets	Tofade T, Franklin B, Noell B, Leadon K. Evaluation of a continuing professional development program for first year student pharmacists undergoing an introductory pharmacy practice experience. <i>Innov Pharm.</i> 2011;2(2). doi: <a href="https://doi.org/10.24926/iip.v2i2.223">https://doi.org/10.24926/iip.v2i2.223</a> .

Incorporated as a portfolio element in the APPE year	Experiential education	APPE students used a CPD portfolio to make connections between their experiences, reflecting on career goals, and submitting a status update to launch their learning plan for the next rotation	Janke K. Preparing Health Professional Students for Continuing Education and Continuing Professional Development. In: Neimeyer G and Taylor J. Continuing Professional Development and Lifelong Learning: Issues, Impacts and Outcomes. New York: Nova Science Publishers; 2012: 3-12.
CPD toolkit and worksheet used by pharmacists to prepare for a professional meeting	Pharmacy practice	Pharmacists successfully used the CPD model to achieve their learning plans, learning outcomes, and practice change	Trewet CB, Fjortoft N. Evaluation of the impact of a continuing professional development worksheet on sustained learning and implementing change after a continuing pharmacy education activity. <i>Res Social Adm Pharm.</i> 2013;9(2):215-21. doi: 10.1016/j.sapharm.2012.06.002.
Multi-state CPD pilot program for pharmacists	Pharmacy practice	Pharmacists utilizing the CPD framework were more likely to carefully appraise their personal learning needs, review their CPD portfolio, and identify new learning needs and opportunities	Dopp AL, Moulton JR, Rouse MJ, Trewet CB. A five-state continuing professional development pilot program for practicing pharmacists. <i>Am J Pharm Educ.</i> 2010;74(2):28. doi: 10.5688/aj740228.
CPD versus traditional continuing pharmacy education for pharmacists	Pharmacy practice	Pharmacists who used the CPD approach reported improved patient care, interactions with healthcare providers, professional knowledge, skills, and attitudes, and practice change	McConnell KJ, Newlon CL, Delate T. The impact of continuing professional development versus traditional continuing pharmacy education on pharmacy practice. <i>Ann Pharmacother.</i> 2010;44(10):1585-95. doi: 10.1345/aph.1P161.

