

1. Title	Operate industrial water chemical dosing equipment									
2. Code	EMPEOM213A									
3. Range	Operate industrial water chemical dosing equipment in general industrial plants, power plants or other places.									
4. Level	2									
5. Credits	6									
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Components of dosing systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Know about the basic components of chemical dosing systems including: <ul style="list-style-type: none"> • Liquid dosing system: timer, dosing pump , liquid level control and stirrer • Solid dosing system: timer, solenoid valve, water pumps, chemical storage device and stirrer </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods of operating industrial water dosing equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Prepare chemicals ◆ Operate industrial water chemical dosing equipment </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in operating industrial water dosing equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow environmental protection regulations, technical memorandum, requirements of the code of practice and manufacturer’s practical guidelines to finish the job ◆ Use personal protection equipment properly according to methods of handling chemicals ◆ Wash chemical dosing buckets or chemical storage devices ◆ Follow dosing equipment manufacturer’s operation guide to operate dosing system equipment </td> </tr> </table>	6.1	Components of dosing systems	<ul style="list-style-type: none"> ◆ Know about the basic components of chemical dosing systems including: <ul style="list-style-type: none"> • Liquid dosing system: timer, dosing pump , liquid level control and stirrer • Solid dosing system: timer, solenoid valve, water pumps, chemical storage device and stirrer 	6.2	Methods of operating industrial water dosing equipment	<ul style="list-style-type: none"> ◆ Prepare chemicals ◆ Operate industrial water chemical dosing equipment 	6.3	Professionalism in operating industrial water dosing equipment	<ul style="list-style-type: none"> ◆ Follow environmental protection regulations, technical memorandum, requirements of the code of practice and manufacturer’s practical guidelines to finish the job ◆ Use personal protection equipment properly according to methods of handling chemicals ◆ Wash chemical dosing buckets or chemical storage devices ◆ Follow dosing equipment manufacturer’s operation guide to operate dosing system equipment
6.1	Components of dosing systems	<ul style="list-style-type: none"> ◆ Know about the basic components of chemical dosing systems including: <ul style="list-style-type: none"> • Liquid dosing system: timer, dosing pump , liquid level control and stirrer • Solid dosing system: timer, solenoid valve, water pumps, chemical storage device and stirrer 								
6.2	Methods of operating industrial water dosing equipment	<ul style="list-style-type: none"> ◆ Prepare chemicals ◆ Operate industrial water chemical dosing equipment 								
6.3	Professionalism in operating industrial water dosing equipment	<ul style="list-style-type: none"> ◆ Follow environmental protection regulations, technical memorandum, requirements of the code of practice and manufacturer’s practical guidelines to finish the job ◆ Use personal protection equipment properly according to methods of handling chemicals ◆ Wash chemical dosing buckets or chemical storage devices ◆ Follow dosing equipment manufacturer’s operation guide to operate dosing system equipment 								
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to operate industrial water dosing equipment under instruction; (ii) Capable to complete operation records and report forms for the industrial water dosing equipment; and (iii) Capable to clearly explain the methods of operating industrial water dosing equipment. 									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of general mechanical and chemical environmental protection.									