

1. Title	Analyze economic indicators on electricity use of plants									
2. Code	EMPEOM507A									
3. Range	Analyze economic indicators on electricity use of plants in general industrial plants, power plants or other places.									
4. Level	5									
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;">Considerations for electricity use of plants</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Know about the calculation of electrical energy and the analysis of different types of electrical energy consumption ◆ Know about plant production process details and information on electricity use including: <ul style="list-style-type: none"> • Electricity consumption of equipment • Surrounding environment of plants such as electricity consumption of lighting and air-conditioning equipment • Types of production • Production volume • Production procedures • Production plan • Development plan </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Techniques of calculating electricity use of plants and analyzing economic indicators</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Calculate and analyze electricity use of plants basing on information of production and plant equipment ◆ Work out the economic indicators basing on the analysis </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in analyzing economic indicators on electricity use of plants</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Perform analyzing tasks according to quality indicators or corporate guidelines </td> </tr> </table>	6.1	Considerations for electricity use of plants	<ul style="list-style-type: none"> ◆ Know about the calculation of electrical energy and the analysis of different types of electrical energy consumption ◆ Know about plant production process details and information on electricity use including: <ul style="list-style-type: none"> • Electricity consumption of equipment • Surrounding environment of plants such as electricity consumption of lighting and air-conditioning equipment • Types of production • Production volume • Production procedures • Production plan • Development plan 	6.2	Techniques of calculating electricity use of plants and analyzing economic indicators	<ul style="list-style-type: none"> ◆ Calculate and analyze electricity use of plants basing on information of production and plant equipment ◆ Work out the economic indicators basing on the analysis 	6.3	Professionalism in analyzing economic indicators on electricity use of plants	<ul style="list-style-type: none"> ◆ Perform analyzing tasks according to quality indicators or corporate guidelines
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to project and analyze the electricity consumption of the plant and work out the economic indicators;</p> <p>(ii) Capable to correctly and clearly explain the electricity consumption of plant and results of the analysis; and</p> <p>(iii) Capable to compile reports on electricity use and the analysis.</p>									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic electrical knowledge.									