

1. Title	Choose lubrication oil and grease									
2. Code	EMPERM501A									
3. Range	Choose and apply appropriate lubrication oil and grease to install and maintain equipment, instruments or tools in general industrial plants, power plants or other places using lubrication oil and grease. This unit of competency is applicable for finding and choosing compatible products with the same or similar quality according to lubrication conditions actually required when original manufacturer's lubrication oil or grease specified is unavailable or for reduction of operational costs.									
4. Level	5									
5. Credits	3									
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;">Properties and applications of lubrication oil and grease</td> <td style="vertical-align: top;">◆ Be familiar with the properties and applications of different types of lubrication oil and grease</td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Techniques and methods of choosing lubrication oil and grease</td> <td style="vertical-align: top;">◆ Correctly choose lubrication oil and grease according to the following to minimize the wear and tear of objects caused by friction: <ul style="list-style-type: none"> <li>• Properties of lubrication oil and grease needed</li> <li>• Environmental factors for the place of use, such as temperature, humidity, types and quantity of pollutants (metal peeled off from object surface or substance suspended in the air)</li> <li>• Restrictions for changing lubrication oil and grease such as funding, difficulty in carrying out the process</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in choosing lubrication oil and grease</td> <td style="vertical-align: top;">◆ Follow manufacturer's and practical guidelines to choose appropriate lubrication oil and grease to ensure that they meet the actual working requirements</td> </tr> </table>	6.1	Properties and applications of lubrication oil and grease	◆ Be familiar with the properties and applications of different types of lubrication oil and grease	6.2	Techniques and methods of choosing lubrication oil and grease	◆ Correctly choose lubrication oil and grease according to the following to minimize the wear and tear of objects caused by friction: <ul style="list-style-type: none"> <li>• Properties of lubrication oil and grease needed</li> <li>• Environmental factors for the place of use, such as temperature, humidity, types and quantity of pollutants (metal peeled off from object surface or substance suspended in the air)</li> <li>• Restrictions for changing lubrication oil and grease such as funding, difficulty in carrying out the process</li> </ul>	6.3	Professionalism in choosing lubrication oil and grease	◆ Follow manufacturer's and practical guidelines to choose appropriate lubrication oil and grease to ensure that they meet the actual working requirements
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7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to choose appropriate lubrication oil and grease for use of lubrication.</p>									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of physics and chemistry.									