

1. Title	Install low and medium pressure pipes									
2. Code	EMPERM215A									
3. Range	Perform repair for low and medium pressure (below 30bar) pipes in general industrial plants, power plants or other places. The competency of this unit excludes welding procedure.									
4. Level	2									
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;">Low and medium pressure pipe and valve assembly drawing content and its illustration method</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand pipe and valve parts drawing and assembly drawing content and its illustration method ◆ Understand surface development drawings of pipe and valve systems ◆ Understand the illustration method of pipe and valve system accessories in thermal system drawings ◆ Understand the methods of repairing low and medium pressure pipes </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods and procedures of installing low and medium pressure pipes</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Assemble, disassemble and repair low and medium pressure pipes according to standards ◆ Replace appropriate hardware accessories such as various types of fasteners ◆ Replace appropriate fillers, sealing materials, metal gaskets and non-metal gaskets ◆ Replace appropriate seal rings, safety valve seal rings, springs and orifice plates ◆ Replace appropriate thermal insulation materials and lubricating materials </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in repairing low and medium pressure pipes</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow the practical guidelines to carry out procedures of repairing low and medium pressure pipes </td> </tr> </table>	6.1	Low and medium pressure pipe and valve assembly drawing content and its illustration method	<ul style="list-style-type: none"> ◆ Understand pipe and valve parts drawing and assembly drawing content and its illustration method ◆ Understand surface development drawings of pipe and valve systems ◆ Understand the illustration method of pipe and valve system accessories in thermal system drawings ◆ Understand the methods of repairing low and medium pressure pipes 	6.2	Methods and procedures of installing low and medium pressure pipes	<ul style="list-style-type: none"> ◆ Assemble, disassemble and repair low and medium pressure pipes according to standards ◆ Replace appropriate hardware accessories such as various types of fasteners ◆ Replace appropriate fillers, sealing materials, metal gaskets and non-metal gaskets ◆ Replace appropriate seal rings, safety valve seal rings, springs and orifice plates ◆ Replace appropriate thermal insulation materials and lubricating materials 	6.3	Professionalism in repairing low and medium pressure pipes	<ul style="list-style-type: none"> ◆ Follow the practical guidelines to carry out procedures of repairing low and medium pressure pipes
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7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to repair low and medium pressure pipes under instruction; and</p> <p>(ii) Capable to complete repair report forms for the low and medium pressure pipes.</p>									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general bench fitting techniques.									