

1. Title	Basic installation of steam turbine mechanical equipment											
2. Code	EMPEIN209A											
3. Range	Perform general installation tasks for steam turbine units in general industrial plants, power plants or other places											
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;">Knowledge and basic working principles of installing steam turbine mechanical equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the basic working principle of main systems of steam turbine ◆ Understand the technical requirements for installing steam turbine mechanical equipment </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods and procedures of assisting in installing steam turbine mechanical equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Follow the requirements of drawings to assist in general basic installation of steam turbine unit equipment ◆ Use equipment alignment and levelling instruments to measure steam turbine bases ◆ Assist in the preparation for steam turbine bases, sizing block configuration and anchor bolt installation and understand the quality requirements <ul style="list-style-type: none"> • Methods and quality requirements for base cleaning and surface grinding • Quality requirements and noting points for sizing block configuration and installation • Methods and quality requirements for anchor bolt inspection, repair and installation ◆ Use various types of tools and measuring instruments properly for installation </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in installing steam turbine mechanical equipment</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Perform tasks for installing steam turbine mechanical equipment components under instruction ◆ Understand safety requirements for work as well as the requirements of the codes of practice and manufacturers' installation guidelines in order to assist in steam turbine unit equipment installation </td> </tr> </table>			6.1	Knowledge and basic working principles of installing steam turbine mechanical equipment	<ul style="list-style-type: none"> ◆ Understand the basic working principle of main systems of steam turbine ◆ Understand the technical requirements for installing steam turbine mechanical equipment 	6.2	Methods and procedures of assisting in installing steam turbine mechanical equipment	<ul style="list-style-type: none"> ◆ Follow the requirements of drawings to assist in general basic installation of steam turbine unit equipment ◆ Use equipment alignment and levelling instruments to measure steam turbine bases ◆ Assist in the preparation for steam turbine bases, sizing block configuration and anchor bolt installation and understand the quality requirements <ul style="list-style-type: none"> • Methods and quality requirements for base cleaning and surface grinding • Quality requirements and noting points for sizing block configuration and installation • Methods and quality requirements for anchor bolt inspection, repair and installation ◆ Use various types of tools and measuring instruments properly for installation 	6.3	Professionalism in installing steam turbine mechanical equipment	<ul style="list-style-type: none"> ◆ Perform tasks for installing steam turbine mechanical equipment components under instruction ◆ Understand safety requirements for work as well as the requirements of the codes of practice and manufacturers' installation guidelines in order to assist in steam turbine unit equipment installation
6.1	Knowledge and basic working principles of installing steam turbine mechanical equipment	<ul style="list-style-type: none"> ◆ Understand the basic working principle of main systems of steam turbine ◆ Understand the technical requirements for installing steam turbine mechanical equipment 										
6.2	Methods and procedures of assisting in installing steam turbine mechanical equipment	<ul style="list-style-type: none"> ◆ Follow the requirements of drawings to assist in general basic installation of steam turbine unit equipment ◆ Use equipment alignment and levelling instruments to measure steam turbine bases ◆ Assist in the preparation for steam turbine bases, sizing block configuration and anchor bolt installation and understand the quality requirements <ul style="list-style-type: none"> • Methods and quality requirements for base cleaning and surface grinding • Quality requirements and noting points for sizing block configuration and installation • Methods and quality requirements for anchor bolt inspection, repair and installation ◆ Use various types of tools and measuring instruments properly for installation 										
6.3	Professionalism in installing steam turbine mechanical equipment	<ul style="list-style-type: none"> ◆ Perform tasks for installing steam turbine mechanical equipment components under instruction ◆ Understand safety requirements for work as well as the requirements of the codes of practice and manufacturers' installation guidelines in order to assist in steam turbine unit equipment installation 										
7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <p>(i) Capable to perform basic installation for steam turbine mechanical equipment under instruction; and</p> <p>(ii) Capable to use the tools properly to carry out general installation of steam turbines.</p>											
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses general installation bench fitting techniques and elementary mechanical knowledge.											