

1. Title	Inspect stationary parts of steam turbines		
2. Code	EMPEIT301A		
3. Range	Perform inspection for stationary parts of steam turbines in general industrial plants, power plants or other places.		
4. Level	3		
5. Credits	6		
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Causes of steam turbine stationary part damage</p> <ul style="list-style-type: none"> ◆ Understand the main causes of sliding lock damage ◆ Understand the causes of cylinder screw thread seizure ◆ Understand the causes of partition looseness ◆ Understand the causes of rotary partition being stuck in the process of operation <p>6.2 Inspect steam turbine stationary parts</p> <ul style="list-style-type: none"> ◆ Know the workmanship of cylinder inspection ◆ Know how to inspect thrust bearings before installation ◆ Know how to measure the gaps on the two sides of the cylindrical and oval shape bushes ◆ Know how to inspect steam turbine bearing seats ◆ Know how to deal with partition sticking ◆ Know how to inspect partition tightness ◆ Know how to inspect the main features of the partition appearance ◆ Know how to inspect the function of the self-adjustable gaps of steam seal rings <p>6.3 Quality Standards for steam turbine stationary parts inspection</p> <ul style="list-style-type: none"> ◆ Know the quality standards for cylinder inspection ◆ Know the requirements for inspecting thrust bush gaps and level of contact ◆ Know the quality standards for the inspection support bearings ◆ Know the quality standards for the inspection of generator bearings ◆ Know the quality standards for the inspection of bearing box and oil block ◆ Know the quality standards for the inspection of cylinder partition and partition cover ◆ Know the quality standards for the inspection of steam gas seal 		

7. Assessment Criteria	The integrated outcome requirements of this unit of competency are: <ul style="list-style-type: none">(i) Capable to know the causes of steam turbine stationary part damage;(ii) Capable to perform the inspection of steam turbine stationary parts independently;(iii) Capable to analyze the quality standards for the inspection of steam turbine stationary parts; and(iv) Capable to complete simple reports for the inspection of stationary parts of steam turbines.
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic mechanical knowledge and is familiar with the operation and use of various types of testing equipment and tools.