

1. Title	Overhaul lift suspension ropes and compensation ropes	
2. Code	EMLEOR319A	
3. Range	Arrange and implement overhauls of lift suspension ropes and compensation rope at field locations.	
4. Level	3	
5. Credit	3	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <div> <div> 6.1 Types, structure and tensile strength of lift suspension ropes and compensation ropes and calculation of car and counterweight headroom </div> <div> <ul style="list-style-type: none"> ◆ Understand different suspension ropes and compensation ropes including: <ul style="list-style-type: none"> • ordinary lay suspension ropes • ordinary lay compensation ropes • regular lay suspension ropes • regular lay compensation ropes ◆ Understand the different structures of suspension ropes and compensation ropes including: <ul style="list-style-type: none"> • fiber core • steel strand • steel wire ◆ Understand the tensile strength of suspension ropes and compensation ropes including: <ul style="list-style-type: none"> • single tensile • dual tensile ◆ Understand the headroom calculation for different cars and counterweight including: <ul style="list-style-type: none"> • reduction of overhead runby by positively monitoring slowdown devices • reduction of overhead runby by using anti-rebound devices </div> </div> <div> <div> 6.2 Overhaul methods and procedures for suspension ropes and compensation ropes </div> <div> <ul style="list-style-type: none"> ◆ Formulate overhaul procedure lists for different suspension ropes and compensation ropes including: <ul style="list-style-type: none"> • selecting appropriated tools set of lifting gears • formulating work procedure lists for lift cars • formulating work procedure lists for suspension ropes and compensation ropes </div> </div>	

		<ul style="list-style-type: none"> ◆ Effectively use different lifting gears to implement and assign completed lifting work for f lift cars including: <ul style="list-style-type: none"> • safety preparation works of shutdown • safety lifting the cars of single wrap and roping 1:1 & 2:1 • safety lifting the cars of double wrap and roping 1:1 & 2:1 • safety works for prevetion creeping of cars • safety works for resumption operation ◆ Effectively use different tools to implement and assign completed disassembly and assembly work for suspension ropes and compensation ropes including: <ul style="list-style-type: none"> • termination sockets for the old ropes • safety devices for prevention ropes slacking • equalization of tension devices • safety guards of prevention foreign falling object for suspension ropes • safety guards of prevention foreign falling object for compensation ropes
6.3	Professionalism in full disassembly and assembly of suspension ropes and compensation ropes	<ul style="list-style-type: none"> ◆ Apply manufacturer's repair instructions and the code of practice for lift work safety to implement and assign completed disassembly and assembly work for suspension ropes and compensation ropes ◆ Apply manufacturer's repair instructions and the code of practice for lift design and construction to implement and assign completed testing work for suspension ropes and compensation ropes including: <ul style="list-style-type: none"> • termination sockets of ropes • safety devices for prevention ropes slacking • equalization of tension devices • safety guards of prevention foreign falling object for suspension ropes • safety guards of prevention foreign falling object for compensation ropes

7. Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> (i) Capable to arrange and assign completed disassembly, assembly and testing procedures for different kinds of lift suspension rope and compensation ropes systematically and through effective communication; and (ii) Capable to implement completed disassembly, assembly and testing works for different kinds of lift suspension rope and compensation ropes under general or complicated situations in compliance with the prescribed standards of repair.
8. Remarks	<p>The credit value of this unit of competency is set on the presumption that the person already possesses knowledge and skills in overhauling general lift suspension ropes.</p>