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STUDY GUIDE



**Certified Medical
Assistant (CCMA) 3.0
Printed Study Guide**

For exams on or after January 2024

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metric system torque applied $t = k d f 1000$ where t torque in N m, f bolt load in N
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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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