

Mapping of MPF (2017) and MSK APS (to be launched) to Advancing Practice module of SOMM (Level 7: 20 credits; validated by Queens Margaret University)

Fully covered
 Partially covered
 Not covered

Element 1: Demonstration of critical and evaluative evidence informed practice				
MSK APS	Knowledge:	Cross Referenced HEE MPF (2017)	Cross referenced SOMM AP module	<input checked="" type="checkbox"/> Fully covered <input checked="" type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E1.K1	Demonstrate critical and evaluative application of <u>evidence informed practices</u> relevant to the field of MSK practice e.g. uses clinical audit to evidence the use of best practice/national and international guidelines within MSK care and service delivery, identifying where modifications are required	4.3	<ul style="list-style-type: none"> • CBD • OSCE • Reflective essay • Critical appraisal presentation 	Fully covered

E1.K2	Demonstrate critical and evaluative understanding of appropriate outcome measures e.g. data collection and analysis, satisfaction feedback and stakeholder engagement to improve quality of care, service delivery and health inequalities	2.3 4.3	<ul style="list-style-type: none"> • OSCE • Reflective essay 	Fully covered
E1.K3	Demonstrate critical and evaluative understanding of pharmacotherapy and the role of joint and soft tissue injections, informed by the evidence base in MSK practice	1.11	<ul style="list-style-type: none"> • Lecture on MSK injection • Lecture on onward referral • Intermodular case reports • OSCE 	Fully covered
Skills:			Cross referenced SOMM AP module	<input checked="" type="checkbox"/> Fully covered <input checked="" type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E1.S1	Demonstrate ability to retrieve, integrate and apply knowledge from the clinical, medical and behavioural sciences in the clinical setting, recognising the limitations of incorporating evidence into practice whilst exercising substantial autonomy and initiative in complex and unpredictable situations at the limits of current professional codes and practices	4.3 4.5	<ul style="list-style-type: none"> • CBD • OSCE • Reflective essay • Intermodular case reports 	Fully covered

E1.S2	Demonstrate ability to critically review the recent literature of the applicable sciences relevant to MSK dysfunctions/conditions, to draw inferences for MSK practice and present material logically in both verbal and written forms	4.3	<ul style="list-style-type: none"> • Lecture on critical appraisal and be a critical thinker • Lecture on Evidence based lecture • Critical appraisal presentation • OSCE • Reflective essay 	Fully covered
E1.S3	Demonstrate an evidence informed approach to the assessment and management of patients with MSK conditions and awareness of the complex impact of activity patterns on pain experience and influences on patient's activity related habits	1.11	<ul style="list-style-type: none"> • Role play • CBD • Lecture on developing MSK medicine (clinical model of Lsp) • Lecture on persistent pain and sensitization 	Fully covered

E1.S4	Demonstrate the ability to evaluate the results of treatment accurately and modify and progress treatment as required using evidence	1.7	<ul style="list-style-type: none"> ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Practical sessions 	Fully covered
E1.S5	Demonstrate the advanced use of outcome measures to evaluate the effectiveness of clinical interventions and services and uses outcomes to inform future planning and development	1.7 2.3	<ul style="list-style-type: none"> ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Practical sessions 	Fully covered
E1.S6	Demonstrate an ability to integrate and apply evidenced informed approaches in the presentation of health promotion and preventative care programmes; work in partnership utilising behaviour change principles to promote and support the individual with continuing work/exercise participation and the importance of social networks, clinical and non- clinical groups and services	1.5	<ul style="list-style-type: none"> ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Social prescribing lecture 	Fully covered
E1.S7	Demonstrate an ability to enhance and promote the rights of a patient to actively participate in their health care management by asking about and understanding the patient's beliefs about their condition. Taking into consideration the patient's wishes, values, goals, attitudes, and circumstances. Demonstrate an awareness of the motivational role of values and assist patient to clarify these, in the presence of psychological distress, and move towards them with awareness of influence of own values on ability to do this	1.4	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay 	Fully Covered

			<ul style="list-style-type: none"> Inter-modular case reports 	
E1.S8	Make recommendations to employers regarding individuals' fitness to work, including through the appropriate use of fit notes and seeking of appropriate occupational health advice	1.7 1.11	Discussion and integrated into OSCE exam question	Fully covered
E1.S9	Work in partnership with individuals to make an informed choice regarding surgical intervention e.g. to understand individuals' beliefs, fears, and concerns, seeking assistance where required, referring appropriately and with consideration of local and national pathway, guidelines, resources and policies.	1.4	<ul style="list-style-type: none"> CBD Practical session OSCE Reflective essay Inter-modular case reports 	Fully covered
Behaviours:			Cross referenced SOMM AP module	<input checked="" type="checkbox"/> Fully covered <input checked="" type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E1.B1	Demonstrate a critical and evaluative approach to all aspects of practice	4.1	<ul style="list-style-type: none"> CBD Practical session 	Fully covered

			<ul style="list-style-type: none"> ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking 	
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Element 2: Demonstrates comprehensive knowledge and critical application of scientific disciplines in contemporary MSK practice				
MSK APS	Knowledge:	Cross Referenced HEE MPF (2017)	Cross referenced SOMM AP module	<input checked="" type="checkbox"/> Fully covered <input checked="" type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E2.K1	Demonstrate comprehensive knowledge of the relevant biomedical and clinical sciences as applied to understanding, assessment, and management, of MSK conditions. Relevant scientific	1.2 1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session 	Fully Covered

	disciplines include anatomy, physiology, pharmacology, pain management, biomechanics, and epidemiology.		<ul style="list-style-type: none"> ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Critical appraisal presentation 	
E2.K2	Demonstrate comprehensive knowledge of psychological and behavioural sciences and the relevant theories on psychological processes and behaviour changes relevant to MSK assessment and management much of which is at, or informed by, the forefront of professional practice. Demonstrate an understanding of the complex and overlapping influences of thoughts, emotions, and body sensations and how they influence behaviour. Demonstrate awareness of and ability to assist patients to modify sleep related behaviours in the presence of physical and psychological factors	1.2, 1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on pain ▪ Critical appraisal presentation 	Fully Covered
E2.K3	Demonstrate comprehensive knowledge of the role of the biopsychosocial model in relation to MSK practice, including advanced knowledge and understanding of narrative based approaches, particularly related to the stories people form in relation to their MSK condition, and social determinants of health as related to MSK conditions.	1.2, 1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on pain 	Fully Covered

			<ul style="list-style-type: none"> ▪ Critical appraisal presentation <p>Fully covered</p>	
E2.K4	Demonstrate comprehensive knowledge of contemporary and applied pain management, with an in depth understanding of the responses of people to pain, to include integration of biopsychosocial model and understanding of all determinants of pain including biological, psychological, and social contributors.	1.2, 1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on pain ▪ Critical appraisal presentation 	Fully Covered
E2. K5	Demonstrate comprehensive knowledge of indications, contraindications, effects, side-effects of therapeutic drugs and Injection therapy, understanding local, national formularies, resources, guidelines, and policies related to their use in the examination and management of MSK conditions	1.2, 1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on injection ▪ Critical appraisal presentation 	Fully Covered

E2.K6	Demonstrate comprehensive knowledge of the influence of the MSK practitioner's own attributes on the therapeutic interaction including, but not limited to, socio-cultural and economic status, ethnicity, gender, sexual orientation, and beliefs that may influence the therapeutic encounter and outcomes	1.11, 2.3	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on EBP 	Fully covered
E2.K7	Demonstrate comprehensive knowledge of effectiveness, risks, and efficacy of MSK treatments/ interventions	1.4, 1.8,1.9	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning and decision making' ▪ Critical appraisal presentation <p>Fully covered</p>	Fully covered
E2.K8	Demonstrate comprehensive knowledge of pathological processes, and possible contributions, as well as differentiate from other systems including (but not limited to) cardio-vascular, respiratory, neurological, dermatological, genito-urinary, lymphatic, and visceral, as they relate to MSK conditions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE 	Fully Covered

			<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning and decision making' <p>Fully covered</p>	
E2.K9	Demonstrate comprehensive knowledge of the specific diagnostic and evaluative qualities of assessment tools, including reliability, validity, responsiveness, positive likelihood, negative likelihood and diagnostic accuracy	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning and decision making' ▪ Lecture on medical complexity/ body system masquerades 	Full Covered

E2.K10	Demonstrate comprehensive knowledge of prognostic, risk, and predictive factors of relevant health problems in relation to MSK management strategies	1.2	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning and decision making' ▪ Critical appraisal presentation <p>Fully covered</p>	Fully Covered
E2.K11	Demonstrate comprehensive knowledge of examination procedures to enable differential diagnosis of MSK, cardio-vascular, respiratory, neurological, dermatological, genito-urinary, visceral, and lymphatic conditions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical 	Fully Covered

			<p>reasoning and decision making'</p> <ul style="list-style-type: none"> ▪ Lecture on medical complexity/ body system masquerades 	
E2.K12	Demonstrate comprehensive knowledge of effectiveness, risks, and efficacy of MSK diagnostic tools including imaging, blood test, and neurophysiology, and treatment interventions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning and decision making' 	Fully Covered
E2.K13	Demonstrate comprehensive knowledge of indications for, and the nature of, surgical intervention in the management of MSK conditions including the expected benefit, limitations, advantages and disadvantages of surgical interventions and the importance of an impartial approach to the information shared in the context of other management options, rehabilitative interventions and social prescribing	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay 	Fully Covered

			<ul style="list-style-type: none"> ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning and decision making' ▪ Lecture on social prescribing rehab 	
E2.K14	Demonstrate the knowledge and skills needed to improve the environmental sustainability of health systems, and describe how the environment and human health interact at different levels	1.11		
Skills:				
E2.S1	Demonstrate critical and comprehensive application of knowledge of the relevant sciences and their contribution to the patient's presentation in the examination and management of patients with MSK conditions. Practise within complex and unpredictable contexts which demands innovative work which may involve exploring current limits of knowledge.	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking 	Fully covered

			<ul style="list-style-type: none"> ▪ Lecture on ‘when to refer’ ▪ Lecture on ‘advanced clinical reasoning and decision making’ <p>Fully covered</p>	
E2.S2	Demonstrate ability to coach patients to set appropriate and person centred goals with attention to barriers, underpinned by effective application of psychologically informed and behavioural principles, to determine which outcome, assessment, and intervention tools are most appropriate, and to interpret outcomes in assessment and management of patients fulfilment of personal goals and independence relevant to their MSK condition e.g. supports and recognises when to discharge the individual with self-management. Demonstrate an awareness of the complex psychological, social and cultural factors that will influence a patient to engage with and continue a pain self-management approach and assist the patient in identifying strategies to overcome modifiable obstacles	1.4,1.5	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on ‘when to refer’ ▪ Lecture on ‘advanced clinical reasoning and decision making’ <p>Fully covered</p>	Fully covered
E2.S3	Demonstrate effective interpersonal and communication skills in the application of knowledge of all relevant sciences in the examination and management of people with MSK conditions to inform them about the risks, prognosis, potential side effects, and likely benefits of an MSK treatment intervention in relation to this. Demonstrate ability to cultivate a shared understanding of pain with patients, acknowledging complexity, explaining the multifactorial	1.5	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay 	Fully Covered

	nature of pain. exploring their beliefs about the relationship between pain and damage, and the impact of pain on people's lives		<ul style="list-style-type: none"> ▪ Inter-modular case reports ▪ Lecture on communication skills and presentation skills ▪ Lecture on 'advanced clinical reasoning and decision making' ▪ Pain lecture 	
E2.S4	Demonstrate the ability to identify, in the context of a biopsychosocial framework, the nature and extent of patients' functional abilities, pain and multidimensional needs, including psychological and social determinants of health, in relation to the ICF classification and planned MSK management e.g. able to identify risk factors for the persistence of MSK conditions and advise, signpost and refer individuals to psychological therapies, counselling and pain services as appropriate	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on communication skills and presentation skills ▪ Lecture on 'advanced clinical reasoning and decision making' ▪ Pain lecture 	Fully Covered
E2.S5	Demonstrate accurate prediction of expected changes and progress towards realistic outcomes	1.7	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE 	Fully covered

			<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on communication skills and presentation skills 	
E2.S6	Demonstrate ability to advise individuals regarding medicines management of their MSK problem, and the expected benefits and limitations in the context of other management options	1.11	Not covered	
E2.S7	Demonstrate ability to keep an individuals' response to medication under review, recognising differences in the balance of risks and benefits that may occur in the context of polypharmacy, multi-morbidity, frailty, and cognitive impairment. Seeking appropriate support or onward referral for pharmacotherapy where required and utilising available resources to further complement advice given e.g., signpost to websites, leaflets, pharmacists, MHRA yellow card scheme.	1.11	Not covered	
E2.S8	Demonstrate ability to work in partnership to explore the suitability for injection therapy, including the expected benefit, limitations, advantages and disadvantages of injection therapy and the importance of an impartial approach to the information shared in the context of other management options. Seeking advice and local referral for injection where required	1.4,1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on MSK injection therapy 	Fully covered

E2.S9	Demonstrate advanced skills in the application of psychological approaches, drawing on awareness of underpinning theories in the interpersonal interaction and management of people living with MSK conditions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on communication skills and presentation skills ▪ Consider social prescribing lecture 	
E2.S10	Discuss how the duty of a health professional to protect and promote health is shaped by the dependence of human health on the local and global environment	1.2	Part of advanced clinical reasoning lecture	Fully covered
Behaviours:				
E2.B1	Demonstrate an objective and analytical attitude in the application of knowledge and adaptation of the applicable sciences in the context of person-centred practice with respect for the individual by acknowledging their unique needs, preferences and values, autonomy and independence in accordance with legislation, policies, procedures. Working to inform and promote legislation, policies, procedures and best practice. Demonstrating ability to deliver complex treatment programmes	1.4, 1.5, 1.6, 1.11,2.3	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on advanced clinical reasoning 	Fully Covered

			<ul style="list-style-type: none"> ▪ Lecture on critical appraisal and critical thinking 	
E2.B2	Demonstrate criticality of practice in the application of knowledge of relevant sciences, within a biopsychosocial framework that includes social determinants of health, in the examination and management of people with MSK conditions	1.6,1.7	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully Covered
E2.B3	Demonstrate creativity and innovation in the application of knowledge of all relevant sciences in the examination and management of patients with MSK condition and demonstrate sensitivity to changes in behaviour of those presenting with MSK conditions.	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully Covered
E2.B4	Demonstrate an advanced level of reflection and self-evaluation in managing people with MSK conditions including a high level of awareness of influences on communication and model ability to work with these in a nonreactive way	1.3, 1.5	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'communication 	Fully Covered

			skills and presentation skills'	
E2.B5	Provide information and support individuals to make an informed choice and to exercise their autonomy in accordance with legislation, policies, procedures, and work to inform and promote legislation, policies, procedures and best practice	1.4, 1.5	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'EBP' ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning' 	Fully Covered

Element 3: Demonstrates critical use of comprehensive knowledge base of MSK PRACTICE				
MSK APS	Knowledge:	Cross Referenced HEE MPF (2017)	Cross referenced SOMM AP module	☑Fully covered

				<input checked="" type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E3.K1	Demonstrate comprehensive knowledge of the interrelationship of anatomical structures in MSK function and dysfunction	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports 	Fully covered
E3.K2	Demonstrate comprehensive knowledge of the theoretical basis of the assessment of the MSK system and interpretation of this assessment towards a clinical diagnosis	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully covered
E3.K3	Demonstrate comprehensive and critical knowledge of static and dynamic function in the assessment of the MSK system and interpretation of this assessment	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully covered

E3.K4	Demonstrate comprehensive knowledge of the biomechanics and principles of active and passive movements of the articular system including the joint surfaces, ligaments, joint capsules, and associated bursae in the assessment of the MSK system and interpretation of this assessment	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully covered
E3.K5	Demonstrate comprehensive knowledge of the specific tests for functional status of the Neuro-musculoskeletal and vascular systems in the assessment of the MSK system and interpretation of this assessment	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' 	Fully covered
E3.K6	Demonstrate comprehensive knowledge of the specific, valid and reliable special/screening tests for the safe assessment of body systems and interpretation of this assessment	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on advanced clinical reasoning' ▪ Lecture on 'when to refer' 	Fully covered
E3.K7	Demonstrate comprehensive knowledge of appropriate medical diagnostic tests and their integration required to make a MSK clinical diagnosis. This includes being able to select the appropriate investigative tests, interpret results and inform assessment and decision making	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session 	Fully covered

			<ul style="list-style-type: none"> ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on advanced clinical reasoning' ▪ Lecture on 'when to refer' 	
E3.K8	Demonstrate comprehensive knowledge of possible interventions for management of MSK condition including: demonstrating shared decision making and acting in the individual's best interest to refer and/or signposting for relevant investigations, local and national services including supported self-management, psychological and coaching support	1.4, 1.5	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on advanced clinical reasoning' ▪ Lecture on 'EBP' <p>Consider social prescribing</p>	Fully covered
E3.K9	Demonstrate comprehensive and critical knowledge of physical, manipulative, exercise, rehabilitative, and multimodal interventions and valid and reliable safety/screening tests for management of MSK condition e.g. the safety and appropriateness of referral for rehabilitation and/or specific interventions (manipulation, manual techniques, electrotherapy, social prescribing, injection therapy and pharmacotherapy etc)	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EBP' 	Fully covered

			<ul style="list-style-type: none"> ▪ Lecture on 'MSK IT' 	
E3.K10	Demonstrate comprehensive knowledge of evidence informed outcome measures appropriate to the management of MSK condition	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EBP' 	Fully covered
E3.K11	Demonstrate comprehensive advanced knowledge of ergonomic strategies and advice to assist the individual/relevant agencies, on effective risk assessments and provision of appropriate working conditions. This may include adaptation to meet the individual's needs in their work environment to prevent MSK related work loss	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports 	Fully covered
E3.K12	Demonstrate comprehensive knowledge of preventative programmes for MSK conditions, including knowledge of and referral pathways for all local exercise groups, smoking cessation and weight management programmes	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Social prescribing/ lifestyle factors lecture 	Fully covered

Skills:			Cross referenced SOMM AP module	<input checked="" type="checkbox"/> Fully covered <input type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E3.S1	Demonstrate advanced application of comprehensive knowledge of the examination and management of individuals with MSK conditions. Be able to assess and manage commonly seen patterns and syndromes and the causes to which they relate: joint, bone pain, muscle pain and weakness, systemic extra-skeletal problems related to trauma, degenerative, neoplastic, inflammatory, developmental/congenital and psychological contributors	1.6,1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully covered
E3.S2	Demonstrate diagnostic skills required for MSK management: assess, identify, analyse and interpret information from the assessment including diagnostic uncertainty and differential diagnoses	1.6,1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ All lectures 	Fully covered
E3.S3	Demonstrate critical evaluation of the contribution of MSK knowledge to the examination and management of the patient with MSK condition	1.7,1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay 	Fully covered

			<ul style="list-style-type: none"> ▪ Inter-modular case reports ▪ Critical appraisal presentation ▪ All lectures 	
E3.S4	Demonstrate critical decision-making regarding integration of principles of manual therapy techniques as a component of multimodal MSK management.	1.6,1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports 	Fully covered
E3.S5	Demonstrate integration of principles of exercise science as it applies to rehabilitation programmes as a component of multimodal intervention for management of MSK conditions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports 	Fully covered
E3.S6	Demonstrate integration of principles of bioplastic adaptation/ motor relearning as a component of multimodal MSK intervention for management of MSK condition	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports 	Fully covered
E3.S7	Demonstrate integration of principles of education and information sharing as a component of multimodal MSK intervention for management of MSK conditions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE 	Fully covered

			<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'communication and presentation skills' 	
E3.S8	Demonstrate, when appropriate, integration of principles of other evidence informed modalities as a component of multimodal MSK intervention for management of MSK conditions	1.11	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'Criticality and critical thinking' 	Fully covered
E3.S9	Demonstrate advanced use of interpersonal and communication skills during history taking, physical examination, review and reassessment, and documentation e.g. consideration of verbal and non-	1.4,1.5,1	<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Reflective essay 	Fully covered

	verbal communication, adapting to individual preferences, cognitive and sensory impairment, and language needs, avoiding jargon and unhelpful/judgemental assumptions		<ul style="list-style-type: none"> ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'communication and presentation skills' 	
Behaviours:			Cross referenced SOMM AP module	<input checked="" type="checkbox"/> Fully covered <input checked="" type="checkbox"/> Partially covered <input checked="" type="checkbox"/> Not covered
E3.B1	Demonstrate adaptability of knowledge of MSK practice in the context of patient centred practice	1.4,1.7	<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'communication and presentation skills' 	Fully covered

E3.B2	Demonstrate criticality of evidence informed practice in the application of MSK management and rehabilitation in the context of person-centred care	1.11	<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'communication and presentation skills' ▪ Critical appraisal presentation 	Fully covered
E3.B3	Demonstrate creativity and innovation in the application of knowledge of MSK care.	1.11	<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'development in MSK medicine' 	Fully covered

Element 4: Demonstration of <u>critical</u> and an advanced level of <u>clinical reasoning</u> skills enabling <u>effective assessment</u> and management of patients with MSK conditions			
MSK APS	Knowledge:	Cross Referenced HEE MPF (2017)	
E4.K1	Demonstrate critical understanding of the process of hypothetico-deductive clinical reasoning, including hypothesis generation and testing	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation
E4.K2	Demonstrate effective use of the process of pattern recognition, including the importance of organising clinical knowledge in patterns	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Critical appraisal presentation

E4.K3	Demonstrate advanced application of the various categories of hypotheses used in MSK healthcare including those related to diagnosis, context, management and prognosis for example understand where early referral and diagnosis may affect long term outcome	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Critical appraisal presentation
E4.K4	Demonstrate comprehensive advanced knowledge of all possible interventions for management of MSK conditions. Demonstrating where agreed in partnership and acting in the individuals best interest, using a wide range of age-appropriate methods of engaging the patient in treatment with awareness of own skills in working with developmental and age-related issues, and demonstrating a heightened awareness of professional and inter-professional boundaries and limitations. Referring and/or signposting for relevant investigations, local and national services including self- help, counselling and coaching support when indicated. referring the patient to a specialist in this area where appropriate	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Lecture on 'when to refer' ▪ Critical appraisal presentation ▪ Social prescribing lecture
E4.K5	Demonstrate critical evaluation of common clinical reasoning errors	1.6,1.8,1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on EBP

			<ul style="list-style-type: none"> ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'development in MSK medicine'
Skills:			
E4.S1	Demonstrate an advanced level of accurate and efficient selection of inquiry strategies based on early recognition and correct interpretation of relevant clinical cues. Gather, synthesise and appraise, from various sources, sometimes incomplete or ambiguous, information relating to current and past history, their activities, any injuries, falls, frailty, multi-morbidity or other determinants of health and wellbeing and characteristics of MSK conditions (pain, stiffness, deformity, weakness, sensory loss and impact on tasks and occupation etc)	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'development in MSK medicine'
E4.S2	Demonstrate an advanced level of critical and evaluative collection of clinical information to ensure reliability and validity, ensuring concise and accurate documentation for clinical management and in accordance with local protocols, legal and professional requirements.	1.6 (Fully covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports
E4.S3	Demonstrate advanced use of clinical reasoning to integrate scientific evidence, clinical information, the individuals perceptions and goals, and factors related to the clinical context and the individual's circumstances using clinical outcome measures such as pain, function and quality of life, to progress	1.6 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE

	meaningful goals and offering regular appointments to monitor other health care needs associated with MSK long term conditions and co morbidities		<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports ▪ Critical appraisal presentation ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine'
E4.S4	Demonstrate integration of evidence informed, person-centred, meta-cognitive and reflective practice in clinical reasoning decision-making	1.6,1.8 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'When to refer'
E4.S5	Demonstrate application of collaborative clinical reasoning with the patient, carers/care-givers and other health professionals in determining management goals, interventions and measurable outcomes and with consideration of local and national pathway, guidelines, resources and policies	1.4,1.9 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports

			<ul style="list-style-type: none"> ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine'
E4.S6	Demonstrate effective prioritisation in the examination and management of patients with MSK conditions	1.8 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'When to refer'
Behaviours:			
E4.B1	Demonstrate a critical understanding of the key role of person-centred complex clinical reasoning skills in all aspects of advanced clinical practice	1.6,1.7 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE

			<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on EBP ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'When to refer'
E4.B2	Demonstrate effective collaborative and communication skills in requesting further investigation or referral to another healthcare professional	1.5,1.9 2.1 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'When to refer' ▪ Lecture on 'communication'
E4.B3	Demonstrate learning through critical reflection during and after the clinical encounter	2.3 4.2 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports

			<ul style="list-style-type: none"> ▪ Lecture on 'advanced clinical reasoning'
E4.B4	Demonstrate learning through precise and timely reassessment	2.3 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Critical appraisal presentation

Element 5: Demonstration of an advanced level of communication skills enabling effective assessment and management of patients with MSK conditions			
MSK APS	Knowledge:	Cross referenced HEE MPF (2017)	
E5.K1	Demonstrate advanced critical understanding of the processes of verbal and non-verbal communication, clinical documentation and the common associated errors of communication e.g. use of inappropriate closed questions, appropriate use of lay and professional terminology.	1.5,1.9 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning'

			<ul style="list-style-type: none"> ▪ Lecture on 'communication and presentation skills'
Skills:			
E5.S1	Demonstrate advanced level of efficient and effective questioning strategies to obtain reliable and valid information from history taking whilst demonstrating the ability to explore and appraise an individual's perceptions, ideas and beliefs about their symptoms e.g. appropriate and sensitive communication styles, exploring, synthesising and distilling relevant information about relationships between social activities, work and health (biological and psycho-social barriers to recovery, frailty, dementia, other determinants of health).	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'advanced clinical reasoning'
E5.S2	Demonstrate efficient and effective use of advanced active listening skills throughout the individuals encounter	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'advanced clinical reasoning'
E5.S3	Demonstrate advanced effective interpersonal skills to inform the individual about their clinical presentation and all their management options, supporting the individual	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE

	to engage in identifying the risks, prognosis, potential side effects, and likely benefits of interventions related to their personal needs and health goals		<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'when to refer'
E5.S4	Demonstrate effective and efficient communication and shared decision making with all individuals involved in determining and managing goals, clinical interventions, social prescribing and measurable outcomes to ensure integrated patient care e.g. verbal, written and digital to serve the individuals best interest	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'advanced clinical reasoning'
E5.S5	Demonstrate an advanced level of skill in implementing and educating individuals in appropriate rehabilitation exercise programmes supporting individuals to engage and explore personal goals, the consequences of their actions and inactions on these goals and their health status and independence relevant to their MSK condition.	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on social prescribing

E5.S6	Demonstrate effective documentation of informed consent from the individual for assessment and management procedures as appropriate	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports
E5.S7	Demonstrate maintenance of clear, accurate and effective records of assessment and management to meet clinical and legal requirements	1.1,1.5 (fully covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Inter-modular case reports
Behaviours:			
E5.B1	Demonstrate critical awareness of person-centred communication as being central to effective advanced clinical practice, modifying personal behaviour and actions to meet the demands of the situation and to enhance own, and others' performance and to modify communication to take account of the needs of different audiences.	1.2,1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EBP'
E5.B2	Demonstrate critical awareness of the central role of communication skills in the development of advanced clinical expertise including using a range of advanced and specialised communication skills to share specialised information and ideas/engage in critical dialogue with a range of audiences with different levels of knowledge & expertise	1.5 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ Critical appraisal presentation ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports

			<ul style="list-style-type: none"> ▪ Lecture on 'communication and presentation skills'
E5.B3	Demonstrate critical awareness of public health strategies and guidelines on the promotion of wellness and prevention through the education of individuals, public, health and social care professionals	1.10 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on social prescribing
E5.B4	Demonstrate advanced self-awareness and empathy to mitigate against the impact of a clinician's own values, beliefs, prejudices, assumptions and stereotypes when interacting with others with ability to clinically demonstrate empathy, validation and active listening to elicit relevant information and engage patients.	2.3 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'communication and presentation skills' ▪ Lecture on 'EBP'

Element 6:

Demonstration of an advanced level of practical skills with sensitivity and specificity of handling, enabling effective assessment and management of patients with MSK conditions

MSK APS	Knowledge:	Cross referenced HEE MPF (2017)	
E6.K1	Demonstrate comprehensive advanced knowledge including indications and contraindications of all available multimodal therapeutic intervention for management of MSK conditions including the safety and appropriateness of referral for rehabilitation and/or specific interventions (manual techniques, electrotherapy, social prescribing, injection therapy and pharmacotherapy etc)	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'MSK injection' ▪ Lecture on 'advanced clinical reasoning' ▪ Lectures on social prescribing and pharmacotherapy
E6.K2	Demonstrate integration of knowledge and clinical reasoning in the decision to perform practical skills	1.6,1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on critical appraisal and critical thinking ▪ Critical appraisal presentation ▪ Lecture on 'EBP' ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Development in MSK medicine'
E6.K3	Demonstrate integration of advanced knowledge and clinical reasoning in the evaluation of clinical information obtained e.g., infectious, metabolic, oncological, inflammatory/autoimmune causes manifesting as MSK dysfunction	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay

			<ul style="list-style-type: none"> ▪ Inter-modular case reports ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on body system and masquerade ▪ Pre-course activity- complex clinical reasoning Elfh learning
E6.K4	Demonstrate comprehensive knowledge of various manual therapy, exercise, digital, and other therapeutic adjuncts e.g., taping, acupuncture, digital technology (e.g., apps and wearables), and electrotherapy modalities used to support adherence to rehabilitation interventions for individuals with MSK conditions using a wide range of digital media to enhance treatment effectiveness of practice	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ OSCE ▪ Inter-modular case reports ▪ 'digital medicine' on 'Development in Medicine'
Skills:			
E6.S1	Demonstrate advanced level of sensitivity and specificity in the physical and functional assessment of the articular, muscular, fascial, enthesal, nervous, vascular, cardiorespiratory systems	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Reflective essay ▪ Inter-modular case reports ▪ Lecture on 'when to refer' ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on body system and masquerade ▪ Pre-course activity- complex clinical reasoning Elfh learning

E6.S2	Demonstrate sensitivity and specificity of handling in the application of manual therapy and manipulation skills relevant to the management of MSK conditions	1.11 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning'
E6.S3	Demonstrate sensitivity and specificity of handling in the implementation and instruction of individuals in appropriate therapeutic rehabilitation exercise programmes including performance optimisation, prehabilitation, graded return to normal activity, activity modification and rehabilitation programmes. Demonstrating technical mastery of complex skills within unpredictable contexts and ability to modify a technique in-action.	1.4,1.111 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine'
E6.S4	Demonstrate biopsychosocial assessment skills and advanced use of interpersonal and communication skills, and willingness to stay with distress where appropriate and model openness, in the effective application of practical skills for assessment, diagnosis and management of individuals with MSK conditions including risk assessment of deliberate self-harm in accordance with local policy	1.5, 1.11,3.8 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Communication and presentation skills'
E6.S5	Demonstrate an awareness of the complex physical, psychological and social factors which may result in a pain flare up and strategies that could be employed to minimise the impact of the flare-up, assisting the patient in identifying their own flareup risk factors and management strategies. Emphasizing this as a normal part of management of long term MSK conditions.	1.11 (Fully covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning'

			<ul style="list-style-type: none"> ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lectures on pain and social prescribing
Behaviours:			
E6.B1	Demonstrate criticality, creativity, adaptability and innovation of practice in the application of practical skills in the context of person-centred practice with ability to deliver complex information in an interactive way with patients whilst addressing beliefs and barriers to understanding	1.7,2.3 (Fully Covered)	<ul style="list-style-type: none"> ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Communication and presentation skills' ▪ Lectures on pain and social prescribing

Element 7:		
Demonstration of a critical understanding and application of the process of research		
MSK APS	Knowledge:	Cross referenced HEE MPF (2017)

E7.K1	Demonstrate critical understanding of research designs relevant to MSK practice, including strengths and weaknesses	4.1 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ Lecture on 'EPB' ▪ Lecture on 'Critical thinking and criticality'
E7.K2	Demonstrate critical evaluation of ethical considerations relating to human research	4.2	Not covered
Skills:			
E7.S1	Systematically collect information from a variety of sources relevant to the MSK practice and critically appraise and synthesise the outcome of relevant research, evaluation and audit, using the results to underpin own practice and to inform that of others and address issues which are at the forefront or informed by developments at the forefront of professional practice.	4.3 (Fully covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality'
E7.S2	Critically engage in research activity relevant to MSK practice, adhering to good research practice guidance, so that evidence-based strategies are developed and applied to enhance quality, safety, productivity and value for money	4.4,4.7	Not covered
E7.S3	Demonstrate effective execution of a research project and dissemination of its conclusions		Not covered

		4.1,4.8	
Behaviours:			
E7.B1	Take a critical approach to identify gaps in the evidence base and actively identify potential need for further research to strengthen evidence for best practice. Take responsibility in alerting appropriate individuals and organisations to identified gaps and how they might be addressed in a safe and pragmatic way	2.5,4.5	Not covered

Element 8: Demonstration of clinical expertise and continued professional commitment to the development of MSK practice			
MSK APS	Knowledge:	Cross referenced HEE MPF (2017)	
E8.K1	Demonstrate effective integration of comprehensive knowledge, cognitive and metacognitive proficiency and understanding of current best available evidence in MSK practice. Demonstrate strong self-awareness by using critical reflection on personal practice & feedback from others to identify & articulate their personal values, preferences, and ways of working, and critically evaluate how these may influence behaviour, judgement & practice e.g. understands the importance of reflective practice and supervision on professional and service development.	4.3 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Advanced clinical practice-Setting the scene' ▪ Lecture on 'EPB'

			<ul style="list-style-type: none"> ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality'
E8.K2	Evaluate and audit own and others' clinical practice, selecting and applying valid, reliable methods, recognising patterns, then acting on the findings	4.2 (Not covered)	
E8.K3	Evaluate the existing and changing professional, social and political influences on the breadth and scope of advanced MSK physiotherapy practice within the context of delivery of services in order to continuously improve MSK healthcare. Demonstrate critical awareness of the political, social, economic & institutional factors shaping the health & wellbeing economy & how they inform the current & future design, delivery & professional development of physiotherapy at a local & regional level	4.5	Not covered
E8.K4	Evaluate the extent to which advanced MSK practice contributes to strategies related to collaborative inter-professional working and person-centred care and play an active role in a variety of professional & policy networks that inform the implementation & development of policies relevant to professional practice with people with MSK conditions	2.7 Fully Covered	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Advanced clinical practice- Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality' ▪ Lecture on 'Communication and presentation skills'
Skills:			

E8.S1	Demonstrate an advanced level in the ability to efficiently retrieve, integrate and apply evidence-based knowledge from applicable sciences in the clinical setting whilst integrating within a framework of person-centred and shared decision making, using effective communication and interpersonal skills; recognising the limitations of incorporating evidence when managing individuals with MSK conditions e.g. social, economic and environmental factors impacting on individual behaviour, intervention and management plan	1.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Advanced clinical practice-Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality' ▪ Lecture on 'Communication and presentation'
E8.S2	Use their clinical-reasoning skills to undertake an assessment of the presenting problem, interpret findings, develop working and differential diagnoses, formulate, communicate, implement and evaluate management plans	1.6 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Advanced clinical practice-Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality' ▪ Lecture on 'Communication and presentation'
E8.S3	Demonstrate advanced professional judgements when selecting assessment, diagnostic and treatment techniques, evaluating benefit and risk and adapting practice to meet the needs of different groups and individuals while maintaining a professional but relaxed communication	1.8 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD

	style throughout contact with the individual e.g. recognising contribution of a range of factors including cognitive impairment, mental health issues, neurodivergence, lifestyle factors and contextual and service factors such as remote consultation, chaperones and interpreters		<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Advanced clinical practice- Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality' ▪ Lecture on 'Communication and presentation' ▪ Lecture on 'lifestyle factors/ co-morbidities'
E8.S4	Demonstrate efficient and effective use of a variety of practical skills that encompass the breadth of MSK practice	1.11 (Fully Covered)	<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine'
E8.S5	Demonstrate efficient and effective management by using expert decision-making skills when working with people with multiple complex inter-related or separate problems and/or co-morbidities e.g. communicate and collaborate with other professions, exploring understanding and providing information, and advising on management interventions and plans for individuals who are off work with back and knee pain but unable to exercise due to COPD and concerned about a loss of employment	1.10,2.1,2.2.3.3 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality' ▪ Lecture on 'Communication and presentation'

			<ul style="list-style-type: none"> ▪ Lecture on 'lifestyle factors/ co-morbidities'
E8.S6	Demonstrate ability to skilfully consult with peers, the MDT and other professionals, legislative and regulatory organisations as appropriate to support, lead & develop local/regional professional & policy networks that advocate for, and support, people in managing their MSK related condition(s). Fostering collaboration, sharing information and ideas to enhance practice and optimise service delivery of the management of MSK conditions and health, prevention and wellbeing for the benefit of individuals, carers, professionals, agencies	1.1,1.2.5,2.8,2.9,2.10 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'advanced clinical reasoning' ▪ Lecture on 'Advanced clinical practice- Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality'
E8.S7	Critically analyse leadership practice through self-awareness of ability to lead, influence and negotiate with others with responsibility for decision making designed to bring about change & development within complex and unpredictable contexts	2.2,2.3,2.4,2.5 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'Leadership and management' ▪ Lecture on 'Advanced clinical practice- Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality'
E8.S8	Critically apply changes to their behaviour and reflect on these relating to underpinning theory on leadership and analyse and reflect on these changes critically reflecting on experiences of	2.7,2.8 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ Critical appraisal presentation ▪ CBD

	collaborative working. Using this information to identify and implement creative solutions to maintain and develop the effective and efficient performance of teams/networks		<ul style="list-style-type: none"> ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'Leadership and management' ▪ Lecture on 'Advanced clinical practice- Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality'
Behaviours:			
E8.B1	Demonstrate safe, effective, autonomous, and reflective practice	1.1,1.2,2.2,2.3,2.10,2.11 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'Advanced clinical practice- Setting the scene' ▪ Lecture on 'EPB' ▪ Lecture on 'Development in MSK medicine' ▪ Lecture on 'Critical thinking and criticality'
E8.B2	Critically assess and address own learning needs, negotiating a personal development plan that reflects the breadth of ongoing professional development	3.1,3.2 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay
E8.B3	Demonstrate a commitment to contributing to the professional development by supporting both the profession, the community, and the wider clinical team to build capacity and capability through teaching and mentoring, including the designing, planning and delivery of learning activities and opportunities to a range of audiences with different levels of knowledge and	3.3,3.4,3.5,3.6,3.7,3.8	Not covered

	expertise, assisting in the advancement of MSK provision across health and social care to the benefit of the public. Contributing to the development and implementation of policy and practice at a local and regional level		
E8.B4	Demonstrate advanced professional judgement, empathy and cultural competence in all interactions with people living with MSK conditions and other clinicians	2.1 (Fully Covered)	<ul style="list-style-type: none"> ▪ Reflective essay ▪ CBD ▪ Practical session ▪ OSCE ▪ Inter-modular case reports ▪ Lecture on 'Communication and presentation skills'
E8.B5	Involve individuals in shaping the design & delivery of their service, & work with others to critically appraise user involvement, & to develop & implement policies, & processes that promote a culture of service user involvement. Using problem-solving approaches such as Quality Improvement to develop original, safe, effective & efficient recommendations for improving the quality of professional practice in unpredictable contexts. Critically reflecting on the change process, and using this information to appraise the outcome and inform future practice	2.3,2.5,2.6,2.7,2.9	Not covered
E8.B6	Identify and challenge discriminatory practices and work with others to critically appraise current practice, and to develop and implement policies and processes that promote a non-discriminatory culture. Work constructively with people of all backgrounds and orientations, by recognising and responding to individuals' expressed beliefs, preferences and choices, and support individuals who need assistance in exercising their rights.	2.1 (Fully Covered)	OSCE exam