



**BIARGS Gynae Robotic Surgeon Training Curriculum**

**LEVEL 1**

(Observed competencies) Core logbook if opportunity available; ST1/ST2 = Second assistant (Bottom end)

**LEVEL 2**

( Able to undertake a skill under supervision (these will be main skills required for bed side first assistant surgical skills) :ST/Practitioner

ST 1- 7 OR Nurse / Allied Health professional = First assistant

**LEVEL 3**

Indirect supervision, competent to perform certain skills including console skills surgically appropriate cases. Robotic ATSM

**LEVEL 4**

Unsupervised, independently competent to perform certain skills including console skills for surgically appropriate cases. Robotic ATSM)

Trainees / Advanced surgical practitioner should have assisted with a laparoscopic cases before assisting with robotic cases.

**Date:**

**Name: (Trainee)**

**Trainer:**

**Robot system:**

Orientation & Preparation	Competence Level							
	Level 1		Level 2		Level 3		Level 4	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature
	ST1/ST2		ST3 /ST4 /ST5		ST6/ST7	ST6 / ST7		

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	Second assistant (Bottom end)			First assistant		ATSM	ATSM	
Orientation of robotic theatre								
Demonstrate effective team working								
Demonstrate effective communication skills within theatre tram								
Demonstrate situational awareness								
Demonstrate importance of Human factor								
Sterile preparation of robot								
Bedside assistant ( level 2)								
Reflective practice								
<b>Knowledge</b>	Level 1		Level 2		Level 3		Level 4	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Completion of the online theoretical training package								
Understands mechanics of the Robotic assisted surgery								
Awareness of the ergonomics of robotic assistance								
Familiar with robotic components and instrumentation								
Awareness of other modalities, benefits and potential complications with robotic surgery								
Trainee is able to adjust the surgical robot's settings								
Awareness of the capital cost of the robotic system and life of robotic assisted instruments								
Knowledge of different docking positions and the indications								
Understanding of the use of electro diathermy in robotic surgery								
Understands reasons for arm clashing and methods of correction								
Knowledge of the potential complications of electro diathermy								
knowledge of principles of laparoscopy and robotic surgery								
Situational awareness								
Communication skills								

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General knowledge /Surgical competence	Competence Level							
	Level 1		Level 2		Level 3		Level 4	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Knowledge of abdominal and pelvic anatomy								
Aware principles of managing a critically ill surgical patient								
Online modules								
- Consoles								
- Docking								
- Instrument insertion								
- Instrument removal								
- Undocking								
Simulator training	Introduction		2 hours		30 hours			
Have completed robotic simulation training								
Satisfactory completion of wet lab training	Observation		Introduction		Advanced			
Robotic Assistant competence	Level 1		Level 2		Level 3		Level 4	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Knowledge of the operative room setup of the robotic system								
Aware of principles of the robotic system								
Be able to drape the Robot								
Be able to respond to system errors								
Able to drive the robot								
Knowledge of how to position patient for robotic surgery								
Undertake vaginal preparation for a robotic procedure								
Able to insert McCartney tube in vagina if required								
Able to insert uterine manipulator if required								

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Be able to undertake vaginal preparation & insert a rectal probe if required									
Understand and demonstrate use of different methods of maintaining pneumoperitoneum									
Able to retrieve specimen vaginally									
Demonstrate understanding port placement									
Able to undertake port placement									
Be able to dock the robotic system									
Understand different docking positions and able to dock the robot									
Be able to maintain a clear image by cleaning/changing the camera									
Be able to insert, change and remove robotic instruments									
Be able to understand reason for clashing and adjust the arm positions									
Have understanding of the appropriate use of assistant port									
Demonstrates of use of suction and maintaining clear operative field									
Able to introduce and present loaded needle									
Able to cut the suture with laparoscopic scissors									
Safe retrieval of needle									
Demonstrate understanding of communication with scrub team and needle/swab count									
Demonstrate introduction and retrieval of surgical swabs from assistant port									
Demonstrate introduction and retrieval of retraction swab (endorector)									
Demonstrate introduction and retrieval of specimen bag									
Be able to perform clip application as directed by console surgeon									
Be able to perform laparoscopic adhesiolysis ( 3 cases- level 3)									
Undocking and port closure (3 cases – level 3)									
Be able to close incisions and port sites closure									
Be able to perform an emergency undocking procedure									
Demonstrate understanding of specimen handling and histology/cytology requests									
Demonstrate skills of communication with recovery and ward staff									
<b>Robot console simulation</b>									
Online modules									

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- Vessel sealer								
- Diathermy								
- Needle driver								
<b>Robot console surgical skills</b>								
Demonstrate camera control and set up visual field								
Demonstrate multi-arm control of the robotic instruments								
Demonstrate hand-eye instrument coordination								
Demonstrate wrist articulation								
Demonstrate clutching of the robotic instruments								
Demonstrate atraumatic tissue handling								
Safe tissue cutting with the robotic system								
Maintain safety of operative field								
Demonstrate blunt dissection with the robotic system								
Demonstrate micro dissection with the robotic system								
Use of diathermy and colpotomy								
Demonstrate plan for surgical specimen retrieval methods								
Demonstrate use of needle driving with the robotic system								
Demonstrate knot tying with the robotic system								
Demonstrate suture handling with the robotic system								
Demonstrate continuous and interrupted suturing with the robotic system								
Understand the potential risks and ability to make appropriate operative decisions								
Be able to manage surgical complications (bowel/urinary/vascular injuries)								
Demonstrate effective communication with anaesthetic, theatre team and console surgeon								
<b>Procedural tasks</b>	Level 1		Level 2		Level 3		Level 4	
	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Sealing and dividing round ligaments								
Identifying ureters and sealing and dividing ovarian vessels								
Incising vesicouterine peritoneum and developing vesicovaginal space								
Sealing and dividing uterine vessels								
Performing colpotomy								

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Suturing vaginal cuff									
Robot assisted hysterectomy (3 cases level 3)									
Robot assisted BSO (3 cases level 3)									
<b>Training Modules</b>									
Basic local training									
Simulator training									
Online module									
Wet lab									
Competence based training (Level 1 to 4)									
Ist assistance sign off									
ST6/7/ATSM									
<b>Assessments</b>									
Audit of cases									
OSATS									
DOPS									
CBD									
NOTSS									
Reflective practice									
Annual update									

Name: Trainee: Name: Trainer : Institute: Level of training: Date:
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