BIARGS
British & Irish Association of
Robotic Gynaecological Surgeons

BIARGS Robotic surgeon training module for gynaecologist

POST RCOG or equivalent Certificate of Completion of Training (CCT) in Gynaecology

LEVEL 4 experience

 Unsupervised, independently competent to perform skills including console skills for surgically appropriate cases.
(Satisfactory completion expected at Level 4)

Gynaecological surgeon should have anatomy knowledge and advanced
surgical skills and Laparoscopic skills before training in robotic surgery.

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
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								
Reflective practice								

Knowledge	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								
Surgeon 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								

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								
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								
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 direct assistant for arterial clip application as console surgeon								
Be able to perform laparoscopic adhesiolysis								
Undocking and port closure								
Be able to perform an emergency undocking procedure								
Robot console simulation								

Online modules								
- Vessel sealer								
- Diathermy								
- Needle driver								
Robot console surgical skills								
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 decisi								
Be able to manage surgical complications (bowel/urinary/vascular injuries)								
Demonstrate effective communication with anaesthetic , theatre team and console surgeon								

Procedural tasks	Level 1		Level 2		Level 3		Level 4	
Hysterectomy/ Pelvic surgery	Date	Signature	Date	Signature	Date	Signature	Date	Signature
Sealing and dividing round ligaments								
Identifying ureters								
Opening the retroperitoneum								
Ureterolysis								
Demonstration of avascular surgical spaces								

Demonstration of pararectal dissection								
Demonstration of rectovaginal dissection								
Demonstration of hypogastric nerve sparing surgery in endometriosis								
Demonstration of pelvic lymphadenectomy in cancer cases								
Identifying, sealing and dividing ovarian vessels								
Incising vesicouterine peritoneum and developing vesicovaginal space								
Sealing and dividing uterine vessels								
Performing colpotomy								
Suturing vaginal cuff								
Robot assisted hysterectomy (3 cases at level 4)								
Robot assisted BSO (3 cases level 4)								
Training Modules								
Basic local training								
Simulator training								
Online module								
Wet lab								
Competence based training (Level 4)								
Assessments								
Audit of cases								
NOTSS								
Reflective practice								
Annual update and submission of minimal dataset								
Annual Trust appraisal								

Name: Trainee:
Name: Trainer :
Institute:
Sign off for completion of robotic surgical module:
Date: