

# Darren Duncan

Asset Integrity Engineer

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## PROFILE

Asset integrity engineer experienced in Australian gas gathering networks and UK subsea transmission. Combines fitness-for-service assessment, compliance planning and maintenance optimisation with hands-on mechanical experience. Seeking a **permanent pipeline or asset integrity role**.

### CORE COMPETENCIES

Pipeline integrity management  
Fitness-for-service assessment  
Risk-based inspection  
Corrosion and remaining life  
Cathodic protection  
Compliance and integrity plans  
Nexus IMS & SAP CMMS

### PROFESSIONAL STATUS

**CEng application under review**  
by IMechE. Academic  
requirements confirmed met  
through the further learning route.

**Verbrec Way Award finalist**,  
Delivery, June 2026.

### EDUCATION & AWARDS

#### BEng (Hons) Mechanical & Energy Engineering

Heriot-Watt University; **first-class honours**

2018–2022

- IMechE Best Student Certificate, 2022
- Deputy Principal's Award, 2021–2022

#### HND Mechanical Engineering

Edinburgh College · Grade A

2016–2018

## EXPERIENCE

### Verbrec

#### Asset Integrity Engineer

Nov 2024 – Present

Brisbane, Australia

Seconded to Santos GLNG, supporting **14,066 flowlines across 10,213 km** in Eastern Queensland's Arcadia, Fairview, Roma and Scotia fields.

- Delivered approximately **A\$940k annual savings** through inspection and survey scope refinement and preventive maintenance optimisation.
- Developed integrity management plans, compliance audits and inspection programmes to APGA Code of Practice and AS 2885; assessed steel, GRE and HDPE flowline fitness for service, applying API 579 and ASME B31G where appropriate.
- Replaced over **10,000 km of off-road driving** and 500 hours of high-risk vehicle operation through LiDAR survey deployment.
- Consulting: BMA/BHP SAP CMMS maintenance strategies; Origin Orana and Talinga structural integrity plans and dropped-object reviews; Santos PNG corrosion circuits and CMMS updates.

### Wood

#### Pipeline Integrity Engineer

Jul 2022 – Oct 2024

Edinburgh, UK

Responsible for integrity management of the Kellas-owned **400 km, 36-inch CATS subsea pipeline**, with capacity for approximately 25% of UK domestic gas demand.

- Automated annual technical integrity assessments in Nexus, reducing preparation from **up to eight weeks to one week**; developed the system and user training.
- Assessed H2NE hydrogen suitability of 800 m, 20-inch API 5L X60 legacy pipelines against ASME B31.12. Planned a **£400k project** with ROV, GPR and hydrogen-charged weld testing scopes; concluded the lines were **not suitable** for hydrogen service.
- Delivered technical QA/QC for a six-week CATS valve shutdown and offshore work at North Everest.

**Earlier mechanical experience:** Weir Oil & Gas apprenticeship, 2010–2013; Stevenson & Kelly technician, 2013–2016.