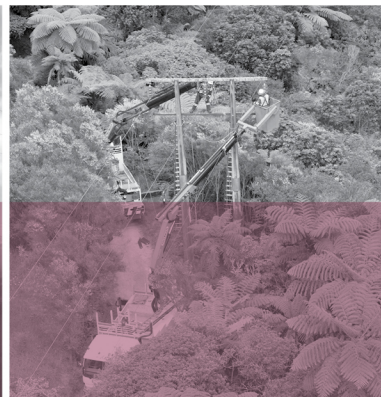




Electricity Engineers'
Association

NCLW

2021 Live Line Forum



EEA.CO.NZ



Nau mai haere mai

- Emergency exits
- Covid
- Facilities
- Programme
- Welcome and Introduction – Bob Taylor , NCLW Chair



Welcome to our 2021 Live Work Forum

- Challenge and Forum Support
- Control of HV Live Line Work, Procedures, Auditing and Restart
- Industry Consultation, Survey and Work Program Development
- SMEI, New Publication, LV Work Management
- Control of LV Live Work, Procedures
- Training Provision and Qualifications
- NCLW Team

Bob Taylor- Chair

Alisdair Reid – Orion

Joseph Reti- Powernet

Charlie Dixon - Northpower

Richard Inglis- Vector

Gavin Paget - Powerco

Filipe Vulaono - WEL

Waihaki Rameka- Unison

Dave Smith – Scanpower

Richard Ashby- Lines & Cables

Graeme Johnson- Electrix

Recently retired (2021) : Mike Burke, Geoff Thornburn, Phil Johnson



Industry and Regulatory Environment

- Safety and Performance
- Health and Safety at Work Act 2015 and Regulations
- Reset Industry Standards Governing Control of Live Work
- 2015 SMEI New Rules to Reinforce Control of LV Live Work
- 2016 Work Method Selection Guide HV OH Lines
- 2017 ECP46 Practice Notes (need to have implemented changes by now)
- Proactive engagement with WorkSafe and Industry
- Reset Framework for Live Work (**Work Method Selection, Procedures, Limitations, Training and Auditing**)
- Restart, Practice Note 2019



PROGRAMME

9.00 — 9.10am	Welcome and introduction	Bob Taylor — EEA NCLW Chair
9.10 — 9.30am	Current HV work method selection and procedures <ul style="list-style-type: none">▶ Background▶ Implementation	Bob Taylor — Consultant, EEA NCLW Chair Gavin Paget — Project Manager, Powerco
9.30 — 9.55am	PowerNet <ul style="list-style-type: none">▶ Restart approach	Danny Leonard — Distribution Manager, PowerNet
9.55 — 10.20am	Auditing and inspections <ul style="list-style-type: none">▶ Discussion on new guide and contents	Alisdair Reid — Engineering Manager, Orion

BREAK 10.20 — 10.50am

10.50 — 11.10am	Industry Live Work survey <ul style="list-style-type: none">▶ Findings	Sean McCreedy — Project Manager technical, EEA
11.10 — 11.30am	Workshop survey findings <ul style="list-style-type: none">▶ Table top Group exercise	Bob Taylor- EEA NCLW Chair Waihaki Rameka — Line Mechanic Foreman, Unison
11.30 — 11.50am	LV Works Management <ul style="list-style-type: none">▶ Permit	Graeme Johnson — Technical Manager, Electrix
11.50 — 12.15pm	LV Procedures and Exclusions	Charlie Dixon — Trade Specialist, Northpower

LUNCH 12.15 — 1.00pm



LUNCH 12.15 — 1.00pm

1.00 — 1.30pm	LV procedures ▶ Table top Group exercise	Filipe Vulaono & Charlie D — Supervisor Live Lines, WEL
1.30 — 2.00pm	Training pathways and Qualifications update ▶ Update on qualifications and TEC funding work	Richard Ashby — Managing Director, Lines and Cables
2.00 — 2.30pm	Trainers and training directions ▶ Table top Group exercise	Richard Ashby — Managing Director, Lines and Cables

BREAK 2.30 — 3.00pm

3.00 — 3.30pm	Learning from accidents and incidents ▶ Discussion on positive elements of learnings	Bob Taylor — EEA NCLW Chair
3.30 — 4.00pm	▶ General Business and closing remarks	Bob Taylor — EEA NCLW Chair

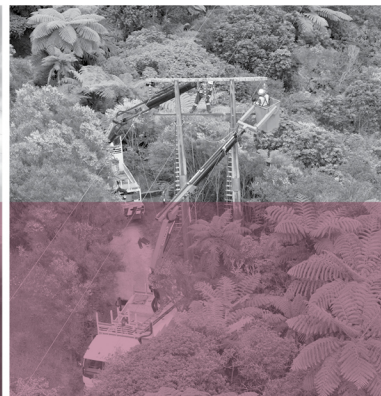
4.00 — 5.00pm Networking opportunity



Questions?



Current HV Work Method Selection and Procedures



Background and Implementation

- 2016 Work Method Selection Guide HV OH Lines
- 2017 ECP46 Practice Notes
- Hot Stick Method COP 1971
- HV Live Line Glove and Barrier Template Procedures 2019 (11)
- Additional (10) Template Procedures Under Consultation 1st April 2021
- Companies have been progressively transitioning to the new template procedures
- Positive impact on Regulator confidence, Industry control over HV Live Line Work
- Positive impact on defining training, competence and auditing standards
- PowerCo leadership and implementation experience Gavan Paget



Questions?

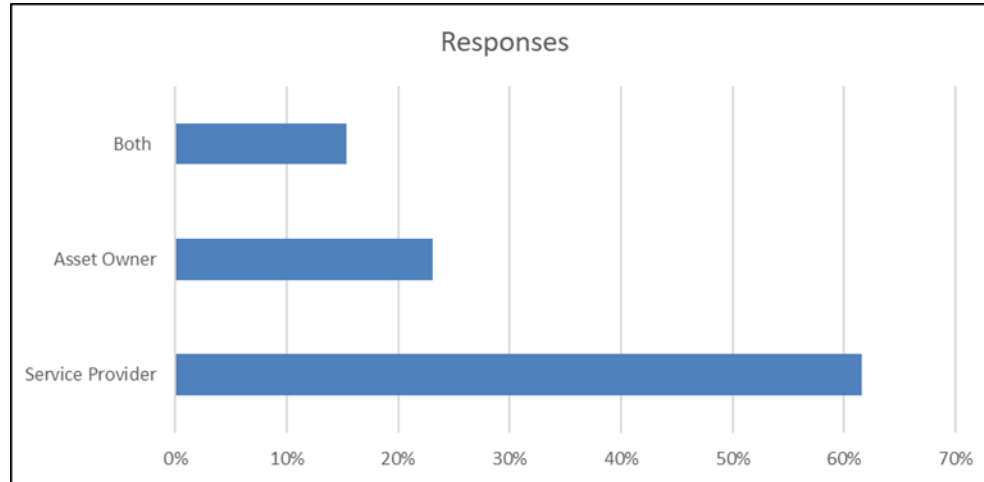


Industry Live Work Survey

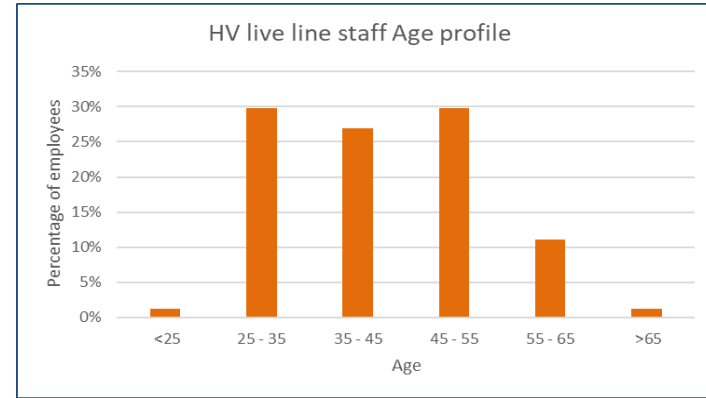
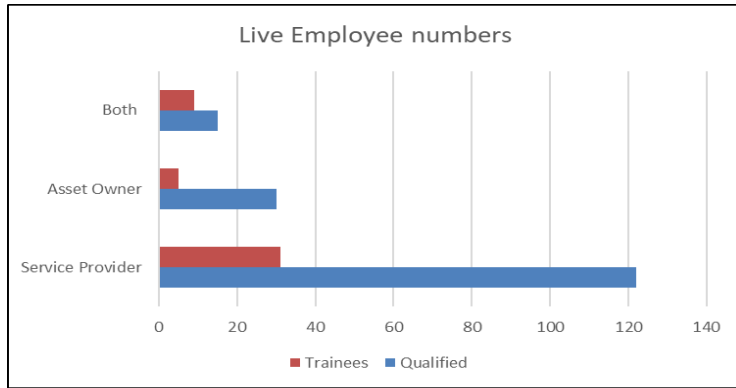


Background

- NCLW undertook the survey for planning future work areas
- 14 organisations responded



Staffing



- 167 qualified HV live workers while there are 45 trainees, this equates to trainees making up 21% of the HV live line employees
- The majority of trainees are employed by the Service Provider sector
- 12% of the HV live staff workforce are over 55 years of age



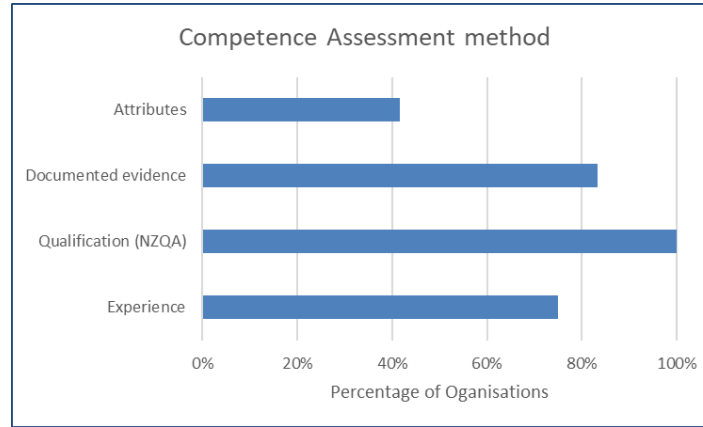
Trainees



- Participants indicated that for each year over the next 5 years that between 40 and 50 new trainees would be required



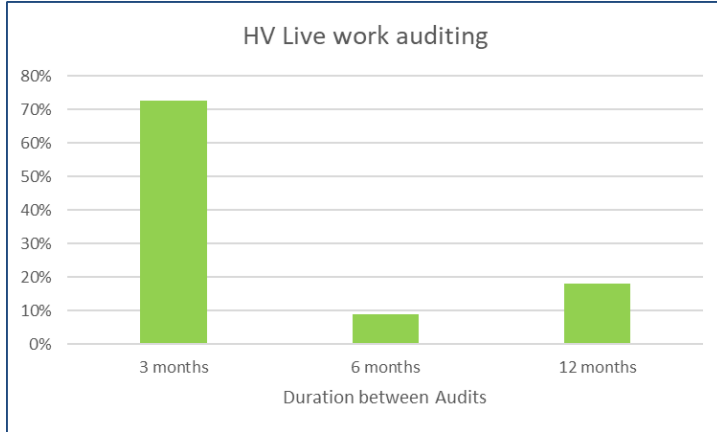
Competence



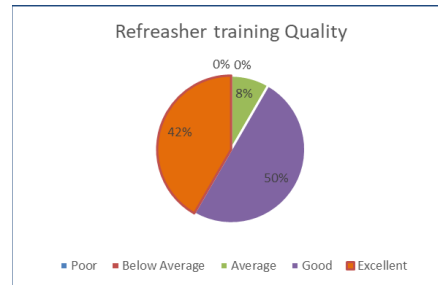
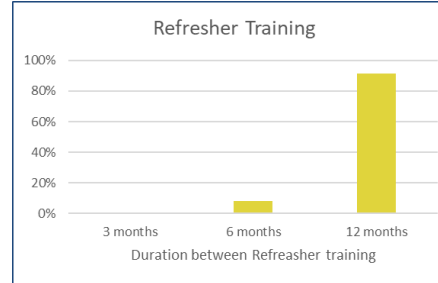
- All organisation use NZQA qualifications
- 83% use documented evidence
- 75% use experience
- All organisations use a mix of methods, 58% of organisations, Qualification, Experience and Evidence
- 33 % of organisations use all four methods
- 25% of organisations use only two methods, qualifications and either attributes or evidence
- These results are in line with the requirements of ECP 46, S 1.3.4.2 for qualification however all live line staff are required to have documented evidence as per section 1.4.4.2, a), iii)



Auditing & Training



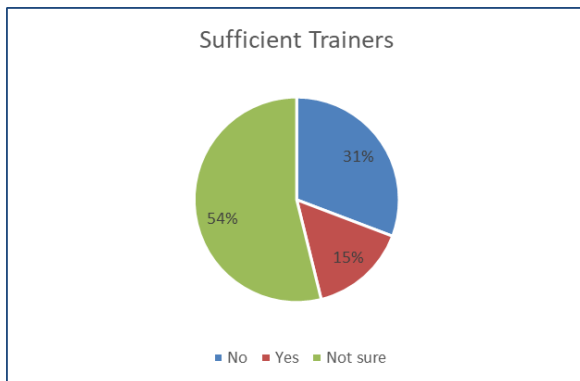
- ECP 46, S 1.3.1.2, requires a service provider to regularly monitor and review all aspects of live line work, at intervals not exceeding 12 months
- Survey data shows that 70% of the respondents are undertaking auditing / inspection 3 monthly, while 18% undertake auditing 12 monthly



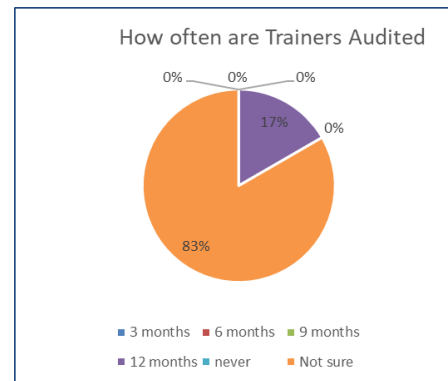
- ECP 45, S 1.3.4.5.4, requires refresher training to be undertaken at intervals not exceeding 12 months and when techniques have changed, or live work has not been undertaken in excess of 12 months
- 92% of organisations undertake refresher training at 12-month intervals in line with ECP 46



Trainers



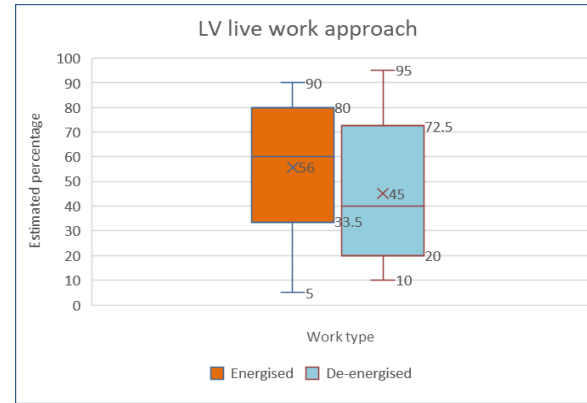
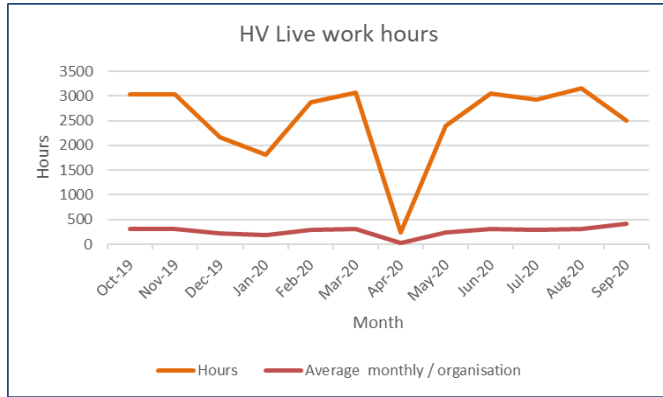
- 54% of respondents are not sure if there are enough trainers for the next 5 years
- 31 % of respondents said there are not enough
- Organisations that responded with a lower number of trainees required over the next 5 years also responded that there are not enough trainers



- ECP 46 requires training providers to audit the competencies of trainers, however, doesn't require a time frame for auditing
- 83% of respondents are not sure when their trainers were audited
- 17% responded 12 months



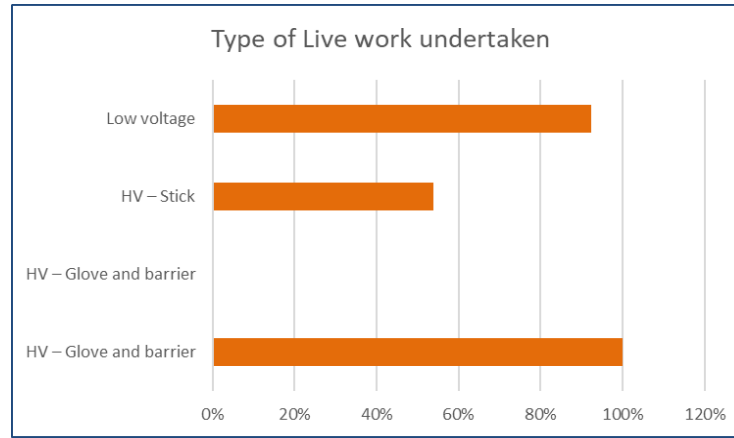
Live Work



- Accumulated hours of all responses and the average
- There is a considerable range of hours across organisations
- Average monthly hours that live work is undertaken across all organisations is 265 hours/ month



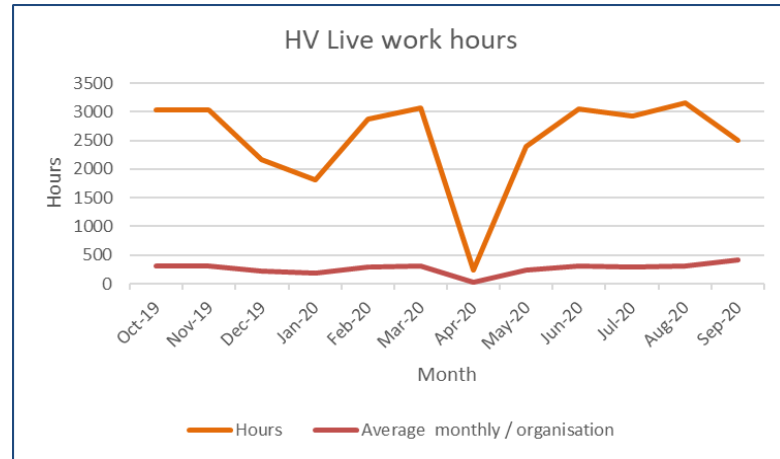
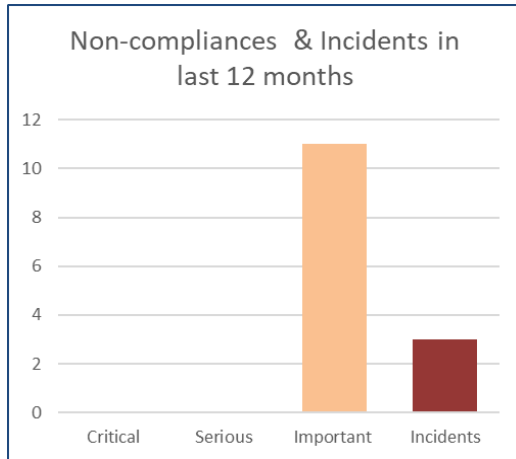
Live Work



- All organisations undertake HV Glove and barrier live work
- 92% of the organisations undertake LV live work
- 54% of organisations undertake HV stick live work



Compliance



- Of the 14 organisations that responded to the survey
 - o 9 organisations had recorded no non-compliances
 - o 4 organisations had recorded non-compliances that were important
 - o 1 organisation reported that they do not undertake any HV Live work
- 3 organisations had recorded incidents



Questions?



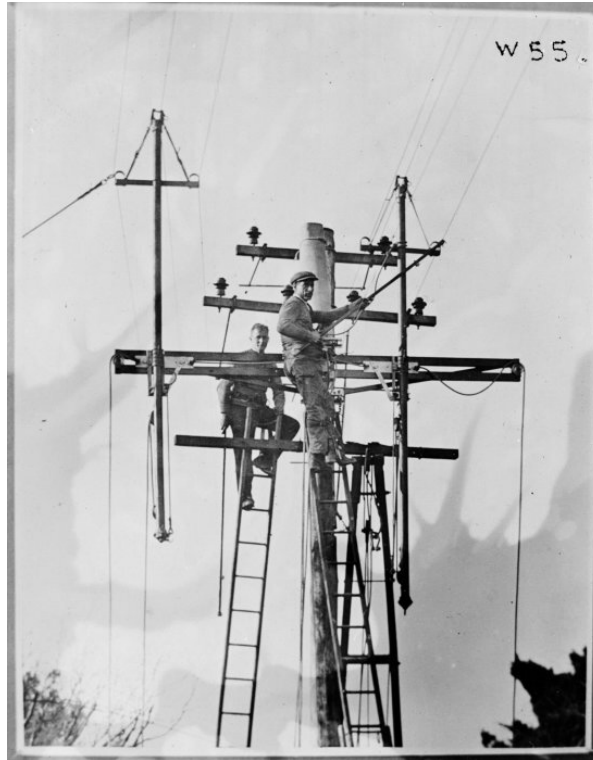
TABLE TOP EXERCISE

In your table groups discuss and write up....

1. What are the areas for the NCLW to work on?
2. Should more work be done on compliance reporting?



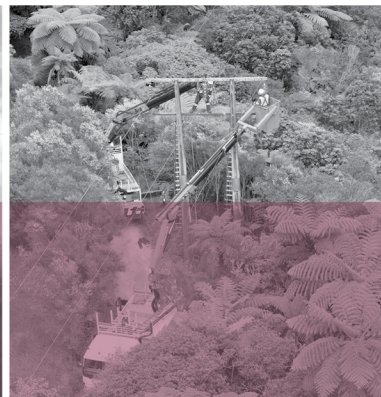
END



- Circa 1930's



NCLW 2021 Work Plan Areas



NCLW 2021 work plan areas

- Tools & equipment management
- LV procedures
- HV procedures
- Training provision & Assessment of competency
- Live work permit auditing
- Education of guides and procedures
- Underground live work or around live assets



Questions?



Learnings from Accidents and Incidents



Haere rā

